TK 3121
.U5
A33
1970

STEAM-ELECTRIC PLANT AIR AND WATER QUALITY CONTROL DATA

FOR THE YEAR ENDED DECEMBER 31, 1970
BASED ON FPC FORM NO.67

SUMMARY REPORT

THE LIBRARY OF THE
NOV 30 1973
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

FEDERAL POWER COMMISSION

STEAM-ELECTRIC PLANT AIR AND WATER QUALITY CONTROL DATA

FOR THE YEAR ENDED DECEMBER 31, 1970
BASED ON FPC FORM NO.67

SUMMARY REPORT

The person charging this material is responsible for its return to the library from which it was withdrawn on or before the **Latest Date** stamped below.

Theft, mutilation, and underlining of books are reasons for disciplinary action and may result in dismissal from the University.

UNIVERSITY OF ILLINOIS LIBRARY AT URBANA-CHAMPAIGN

MAY 17 1975

FEB 22 1995

FEDERAL POWER COMMISSION
WASHINGTON, D.C. 20426

JULY 1973

For sale by the Superintendent of Documents, U.S. Government Printing Office
Washington, D.C. 20402 -

COM[illegible]

JOHN W. NAS[illegible] Chairman
RUSH MOODY, [illegible] Vice Chairman
ALBERT B. BR[illegible] JR.
WILLIAM L. SPRINGER

WEBSTER P. MAXSON, Executive Director
KENNETH F. PLUMB, Secretary

Prepared by the

Federal Power Commission, Bureau of Power

T. A. Phillips, Chief

CONTENTS

Page

PREFACE v
INTRODUCTION vii
DISCUSSION OF FORM 67 DATA ix
a. Growth of the Industry
b. Fuel Quality
c. Air Pollution Control
d. Water Pollution Control

AIR QUALITY DATA AGGREGATED BY STATE AND GEOGRAPHIC REGION AND BY AIR QUALITY CONTROL REGION

Table 1A Fuel Consumption and Quality, By Region and State, 1970 1
Table 1B Fuel Consumption and Quality, By Air Quality Control Region, 1970 2
Table 2A Estimated Annual Emissions, By Region and State, 1970 5
Table 2B Estimated Annual Emissions, By Air Quality Control Region, 1970 6
Table 3A Ash and Sulfur Collection and Disposal, By Region and State, 1970 9
Table 3B Ash and Sulfur Collection and Disposal, By Air Quality Control Region, 1970 10
Table 4A Air Quality Control Expenses, By Region and State, 1970 13
Table 4B Air Quality Control Expenses, By Air Quality Control Region, 1970 14
Table 5A Installed Costs of Air Pollution Control Equipment, By Region and State, 1970 17
Table 5B Installed Costs of Air Pollution Control Equipment, By Air Quality Control Region, 1970 18

WATER QUALITY DATA AGGREGATED BY STATE AND GEOGRAPHIC REGION AND BY WATER RESOURCE REGION

Table 6A Number of Plants, Capacities, and Types of Cooling, By Region and State, 1970 21
Table 6B Number of Plants, Capacities, and Types of Cooling, By Water Resource Region, 1970 22
Table 7A Average Cooling Water Use, By Region and State, 1970 23
Table 7B Average Cooling Water Use, By Water Resource Region, 1970 24
Table 8A Use of Chemical Additives, By Region and State, 1970 25
Table 8B Use of Chemical Additives, By Water Resource Region, 1970 26

Page

Table 9A Water Treatment Expenses, and Cooling Facility Costs, By Region and State, 1970 27

Table 9B Water Treatment Expenses, and Cooling Facility Costs, By Water Resource Region, 1970 28

INDIVIDUAL PLANT DATA

Table 10 29

Footnotes to Table 10 166

APPENDICES

APPENDIX 1 Alphabetical Index of Plants

APPENDIX 2 Map of Air Quality Control Regions

APPENDIX 3 Map of Water Resource Regions

APPENDIX 4 Map of Geographic Divisions

PREFACE

This publication, covering the calendar year 1970, is the second summary in a series based on FPC Form 67. 1/

The first summary, published in February of 1973, covered 1969. Its publication culminated a long effort by the Commission to gather and disseminate reliable and complete information about the nationwide impact of steam-electric power plants on the environment. The 1970 summary, for example, accounts for practically all the coal, oil, and gas consumed by steam-electric plants during that year.

The methodology employed in the preparation of this publication is explained in detail in the 230-page summary for 1969, entitled "Steam-Electric Plant Air and Water Quality Control Data" (FPC publication number S-229). In the United States it may be obtained by mail from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402 for $2.60; it may also be purchased over the counter at GPO bookstores for $2.25 per copy.

Please address all comments and inquiries pertaining to this summary to:

Section of Fuel and Environmental Analysis
Bureau of Power
Federal Power Commission
Washington, D. C. 20426

1/ A copy of FPC Form 67 is included as an Appendix to the first summary.

Digitized by the Internet Archive
in 2013

http://archive.org/details/steamelectricpla1970unit

Data from 153 steam-electric plants form the basis of this summary, including three reported nuclear plants and one geothermal plant. For 1970, 154 plants reported. This increase in number is due to new plants being placed on-stream during the year and to changes in EPA regulations making additional existing plants subject to FPC reporting requirements.

In 1970, the electric utility industry consumed about one quarter of the national total primary energy demand 2/, including nearly two-thirds of the coal, two-fifths of the residual fuel oil, and more than 17 percent of the natural gas. The industry also accounts for eighty percent of the total cooling water used and one-third of the total quantity of water withdrawn for all purposes. 3/

The Federal Power Commission estimates that the nation's total steam-electric generating capacity will increase from 265,600 megawatts in 1970 to 1,033,000 megawatts in 1990, as shown in the following tabulation: 4/

(Capacity in Megawatts)

	1970	1990
Fossil Steam	259,100	558,000
Nuclear	6,500	475,000
All other	74,400	227,000
Total	340,000	1,260,000

Thus, the electric utility industry must meet the challenge of a rapidly rising demand for electricity while simultaneously attaining environmental quality standards promulgated by all levels of government which contribute to the growing scarcity of "clean" fuels. Unless environmental quality control measures in steam-electric plants are continuously made more effective, emissions of pollutants into the atmosphere and waste heat into the nation's waters will increase with the growth in generation in the years ahead.

Attainment of the required environmental controls will have a decided effect on the cost of generating electricity and on the price to consumers. In the absence of fully developed, commercially acceptable technology for the control of sulfur dioxide and oxides of nitrogen emissions from fossil-fueled power plants, accurate overall costs of meeting the various environmental standards are difficult to obtain. Conservative estimates by some investigators, however, indicate that in 1970 the incremental cost of generating electricity would have been nearly four

---

2/ "The 1970 National Power Survey," FPC, December 1971, pp-I-3-4
3/ Ibid, pp. I-10-1
4/ Ibid, pp. I-18-2

billion dollars, if the electric utility industry had had to meet the 1975 basic environmental control standards. The incremental cost of environmental controls may reach nearly $10 billion in 1990. 5/

In the end, the consumer pays for pollution control benefits in the form of increased electricity costs. Ultimately, the consumers of electricity will decide the extent of pollution control they wish to buy in future years and the data provided by the Form 67 reports will allow an improved definition of the benefit versus cost trade-off.

5/ "Environmental and Economic Cost Considerations in Electric Power Supply," by Alexander Gakner and Robert M. Jimeson. Paper presented at the 74th National Meeting of the AIChE, March 11-15, 1973

This discussion is based on data contained in the Summary for 1970 and, where appropriate, it includes a comparison with data presented in the Summary for 1969. 6/ The comparison serves as a basis for noting significant differences between the two years and possible trends in the quantities measured.

As in the first issue, the 1970 data is displayed in 18 summary tables (nine pairs): ten tables (five pairs) summarize air quality data and eight tables (four pairs) summarize water quality data, respectively. The first in each pair of air quality tables gives state totals and a national total for each quantity measured. The second table in each pair presents the totals for each Air Quality Control Region designated by the Environmental Protection Agency. Similarly, the first in each pair of water quality tables gives state and national totals, while the second in each pair presents the totals for each Water Resource Region.

Also included are: 1) A 137 page detailed table with individual plant data for each of the 683 plants covered by this report; 2) An alphabetical listing of the plants (Appendix 1); 3) A map showing each Air Quality Control Region (Appendix 2); 4) A map showing the Water Resource Regions (Appendix 3); and 5) A map outlining the major Geographic Divisions of the United States (Appendix 4).

a. Growth of the Industry

Consistent with the continuing growth of the industry, steam-electric plants generated more electricity, consumed more primary energy, and required more cooling capacity than ever before. Power generation in steam-electric units covered by this report (including Puerto Rico and the Virgin Islands) was about 1,230 million megawatt-hours, up 7.7 percent from the previous year. 7/

6/ The Summary for 1969 was the first in the series. It included a detailed explanation of the methodology employed in estimating emissions of particulates, sulfur dioxide, and oxides of nitrogen along with other data editing and computational routines. The explanation is not repeated here.

7/ Data obtained on FPC Form 4 for electric utility plants in the 50 states, but excluding Puerto Rico and the Virgin Islands, showed 1970 electric power generation in fossil fueled plants, including generation in gas turbine and internal combustion engine units, to be 1,284.2 billion kilowatt-hours (FPC News Release No. 18246, May 8, 1972). Responses to FPC Form 67 cover an estimated 98 percent of the power generation and a corresponding share of the fossil fuel consumption in steam-electric units located in a geographic area comparable to the FPC Form 4 coverage.

To meet the growing demand for electricity, steam-electric plants reporting in Form 67 consumed 12.9 quadrillion (10^{15}) BTU in 1970 in the form of coal, oil, and gas -- up about 7.1 percent from the previous year. The rate of growth, however, was not evenly divided among the three fuels. The use of coal increased only 2.6 percent on a tonnage basis (less than 0.5 percent on a BTU basis); steam-electric plants consumed 28.0 percent more barrels of oil (27.3 percent increase on a BTU basis); and consumption of gas increased 11.6 percent (11.4 percent on a BTU basis). As a result of this differential in growth, the relative importance of the various fuels as a source of primary energy changed. Thus in 1970 coal, oil and gas supplied, respectively, 55.6 percent, 15.3 percent 29.1 percent of the BTU's from fossil fuels compared to 58.5 percent. 13.1 percent 28.4 percent respectively in 1969.

The following tabulation shows the percent increase (+) or decrease (-) from 1969 to 1970 in the physical quantities of coal, oil and gas used in each of the major geographic regions considered in this report.

Region	Coal	Oil	Gas
New England	- 31.8	+ 15.1	+ 0.8
Middle Atlantic	+ 1.8	+ 21.1	+ 3.5
East North Central	+ 1.2	- 402.8	+ 5.5
West North Central	+ 17.8	+ 69.4	+ 2.3
South Atlantic	- [illegible]	- 47.1	+ 21.8
East South Central	+ [illegible]	- 42.1	+ 8.[illegible]
West South Central	- [illegible]	- 108.5	+ 11.1
Mountain	+ 35.9	- 4.3	+ [illegible]
Pacific	-	+ 2.6	+ 7.6
Non Contiguous	-	+ 12.0	-
Nation	+ [illegible]	+ 28.0	+ 11.6

b. Fuel Quality

The average heating values of all fuels used by steam-electric plants in 1970 decreased from the previous year as follows:

	1969	1970	% Decline
Coal (BTU/Lb.)	11,628	11,276	3.0
Oil (BTU/Gal.)	148,727	147,991	0.5
Gas (BTU/Cu. Ft.)	1033	1031	0.2

The average heating value of coal used by electric utilities declined while the average ash content increased in every major region of the country. This, possibly, is the result of the growing proportion of strip-mined coal used by electric utilities. The 1970 sulfur content of utility coal was [illegible] percent by weight, practically unchanged from the 2.[illegible] percent average of previous years.

The decline in the average BTU content of oil may, in part, be related to the 7.5 percent reduction in its sulfur content from an average of 1.68 percent by weight in 1969 to 1.52 percent in 1970. In the process of desulfurization residual oil loses some of its heating value.

c. Air Pollution Control

The total reported air quality control expenses reached $71.3 million in 1970, an increase of nearly $12 million or 19.5 percent over the previous year. On a national basis the 1970 expenses amounted to about 0.058 mills per kw-hr, an 11.5 percent increase from the 0.052 mills per kw-hr. reported for 1969. The bulk of the increase was for the collection and disposal of ash.

Particulates: Although the total ash content of all the coal burned by steam-electric plants increased to 43.2 million tons in 1970 from 38.1 million tons in 1969, estimated particulate emissions decreased, respectively, to 4,250 thousand tons from 4,293 thousand tons, a drop of 1.0 percent. Compared with the earlier year, electric utilities spent 24 percent more money to collect 17 percent more ash. This was accomplished through upgrading the performance of existing precipitators and through the installation of new equipment. During the year the installed cost of all precipitators increased by $55 million -- an increase of 14 percent. Most of the new capital expenditures were in the electrostatic precipitator category.

Sulfur Oxides: Removal of sulfur oxides from flue gases remained in the experimental stage (Lawrence Station of The Kansas Power and Light Company and Meramec Plant of Union Electric Company) having no significant effect on total emissions. Consequently, emissions of sulfur oxides increased 4.1 percent from 16,824 thousand tons in 1969 to 17,521 thousand tons in 1970, about in proportion to the growth in the coal tonnage burned.

Oxides of Nitrogen: Emissions of oxides of nitrogen are estimated as a function of the fuel quantity and type and, in the case of coal, also of the boiler design. (A more detailed description of the computational methodology is given in the 1969 Summary). In the absence of any significant development in oxides of nitrogen control technology, the estimated emission rate remained at 4.22 thousand tons per million megawatt-hours, about the same as in 1969. Consequently, total 1970 emissions of nitrogen oxides increased at about the same rate as total consumption of fossil fuels, reaching 5,189 thousand tons in 1970 as compared with 4,832 thoudand tons the year before.

d. Water Pollution Control

A factor of increasing importance in the siting and operation of steam-electric plants is the disposal of large quantities of waste heat. The amount of heat to be disposed of depends upon the type and efficiency of the plant. Although the most efficient plants achieve efficiencies

of about 40 percent, the average for all steam-electric plants in 1970 was about 33 percent (heat rate of 10,494 Btu). In the operation of a plant, some heat is lost within the plant and through the stack. On the average, however, more than one-half of the heat input is discharged to the cooling water in the condensing process. The heat added to the water must then be dissipated by some cooling method.

The following tabulation shows the extent to which various types of cooling are used by the 681 plants for which information on cooling systems was obtained by the 1970 Form 67 reports relating to installed capacities totaling 261,713 megawatts. For comparison, corresponding percentages are shown for the 651 plants with capacities totaling 242,927 megawatts as reported for 1969.

	Use of Various Types of Cooling			
	% of Total Number of Plants		% of Total Installed Capacity	
	1969	1970	1969	1970
Once-through, fresh	49.8	49.4	50.5	50.1
Once-through, saline	18.9	18.5	23.5	22.8
Cooling ponds	5.4	5.7	5.9	6.7
Cooling towers	17.2	17.5	10.9	11.2
Combined systems	8.7	8.9	9.2	9.2
Total	100.0	100.0	100.0	100.0

As indicated, the majority of plants providing the major share of steam electric capacity employ once-through cooling using either fresh or saline water. Cooling ponds are important in the Texas-Gulf region. Cooling towers are important in the Ohio, Arkansas-White-Red, Texas-Gulf, and Lower Colorado regions. Implementation of new State and Federal water pollution control legislation will accelerate the use of cooling ponds and cooling towers. Most towers are of the evaporative type and little use has been made so far of non-evaporative (dry) cooling towers.

The total average rate of withdrawal of fresh water in 1970 for cooling purposes was reported to be 172,005 cubic feet per second. This is equivalent to about nine percent of the average annual runoff of all the streams in the conterminous United States. For 1969, the total average rate of withdrawal of fresh water was 165,232 cubic feet per second.8/ The average rate of consumption of fresh water in 1970 was 881 cubic feet per second, or about 0.5 percent of the total withdrawals. This rate of consumption includes calculated rather than reported amounts for the losses due to induced evaporation in receiving water bodies at plants using once-through cooling. The rate of consumption in 1969 was 1,058 cubic feet per second. 8/ The total rate of withdrawal of saline water was 73,439 cubic feet per second in 1970 and 68,391 cubic feet per second in 1969. The use of saline water for cooling is important in all costal regions.

8/ This corrected figure should be substituted for that shown in FPC publication S-229.

The principal chemical additives reported for cooling water treatment were phosphate, lime, alum, and chlorine, with the latter being used in the largest amounts. The principal use of the additives is to prevent the fouling of condenser tubes. Phosphate, caustic soda, lime, alum, and chlorine were used for boiler water treatment, with caustic soda being used in the largest amounts.

The total reported capital cost of cooling water facilities for 1970 is $1,083 million, an increase of $110 million over the 1969 reported cost. The unit costs of the various types of cooling systems as reported for 1970 are shown in the following tabulation:

Type Cooling	Capital Cost per kw
Once-through, fresh	$ 4.03
Once-through, saline	4.63
Cooling ponds	5.43
Cooling towers	6.25

It should be recognized that the total installed costs of facilities exclude older equipment costs which are unknown and were not reported.

The total operating expenses for cooling water facilities in 1970 were reported to be $24.0 million for operation and maintenance and $5.9 million for chemical additives. Assuming fixed charges of 15 percent on the capital costs, the total expenses for the year would amount to $192.4 million. This is equivalent to approximately 0.15 mills per kilowatt-hour for the total generation of 1.230 trillion kilowatt-hours.

FUEL CONSUMPTION AND QUALITY, BY REGION AND STATE, 1970

LINE NO	GEOGRAPHIC REGION AND STATE	COAL AVERAGE CONSUMPTION (1000 TONS)	COAL AVERAGE HEATING VALUE (BTU/LB.)	COAL AVERAGE SULFUR (%)	COAL AVERAGE ASH (%)	OIL CONSUMPTION (1000 BBLS)	OIL AVERAGE HEATING VALUE (BTU/GAL.)	OIL AVERAGE SULFUR (%)	GAS CONSUMPTION (1000 MCF)	GAS AVERAGE HEATING VALUE (BTU/CF.)	LINE NO
	NEW ENGLAND										
1	CONNECTICUT	[illegible]	[illegible]	[illegible]	16.06	[illegible]	148,769	[illegible]	[illegible].57	1,000	1
2	MAINE					[illegible].00	146,[illegible]99	1.49			2
3	MASSACHUSETTS	[illegible]	[illegible],418	[illegible]	[illegible].13	41[illegible]49.36	14[illegible],741	[illegible].[illegible]6	4,082.90	[illegible],000	3
4	NEW HAMPSHIRE	[illegible]	[illegible],[illegible]50	[illegible].[illegible]2	[illegible],7.15	[illegible]2.00	148,123	[illegible].15			4
5	RHODE ISLAND					[illegible]2.50	148,716	[illegible].[illegible]7	2,319.20	[illegible],[illegible]38	5
6	VERMONT	[illegible]0	[illegible], 13	[illegible].[illegible]	10.80						6
7	**TOTALS**	**3,458.42**	**12,198**	**2.39**	**13.91**	**70,592.83**	**148,711**	**2.08**	**6,533.67**	**1,014**	7
	MIDDLE ATLANTIC										
8	NEW JERSEY	[illegible]2[illegible]	[illegible],[illegible]20	[illegible].[illegible]5	[illegible].[illegible]05	[illegible]5[illegible]88.51	146,599	1.00	35,020.91	[illegible],[illegible]16	8
9	NEW YORK	11,[illegible]94.91	[illegible]2,[illegible]12	[illegible].[illegible]6	[illegible]4.13	56,[illegible]70.69	147,031	[illegible].19	100,356.17	[illegible],[illegible]34	9
10	PENNSYLVANIA	28,[illegible]27.56	[illegible]1,[illegible]11	2.58	[illegible]5.[illegible]8	24,[illegible]89.28	147,[illegible]015	1.17	6,552.30	[illegible]77	0
11	**TOTALS**	**[illegible]3,749.55**	**[illegible]2,[illegible]68**	**2.37**	**14.[illegible]2**	**120,748.48**	**146,885**	**1.12**	**141,929.38**	**1,032**	1
	EAST NORTH CENTRAL										
12	ILLINOIS	28,499.81	10,483	3.22	12.17	3,155.07	148,053	1.05	114,021.84	1,039	2
13	INDIANA	22,433.63	11,025	3.28	11.59	193.80	139,729	.30	26,380.22	1,018	3
14	MICHIGAN	20,115.46	11,770	2.58	12.[illegible]6	5,281.91	146,075	1.56	82,411.37	[illegible]812	4
15	OHIO	[illegible]5,067.12	11,232	3.16	14.98	493.03	141,041	.43	13,455.50	945	5
16	WISCONSIN	9,[illegible]82.50	11,106	2.82	12.80	1,146.35	144,272	1.31	23,153.01	1,026	6
17	**TOTALS**	**[illegible]16,098.52**	**11,090**	**3.07**	**13.06**	**10,270.16**	**146,142**	**1.30**	**259,421.94**	**959**	7
	WEST NORTH CENTRAL										
18	IOWA	3,658.07	10,[illegible]06	[illegible].[illegible]	10.78	[illegible]2	142,[illegible]845	.75	57,334.34[illegible]	1,020	8
19	KANSAS	[illegible]348.38	12,[illegible]12	[illegible].[illegible]5	12.[illegible]8	[illegible]44	151,440	1.55	[illegible]42,041.90[illegible]	[illegible],[illegible]05	19
20	MINNESOTA	[illegible]0.65[illegible]	[illegible]0,[illegible]26	2.[illegible]2	10.36	6[illegible],[illegible]65	143,970	1.77	42,667.64	99[illegible]	20
21	MISSOURI	[illegible]0,611.03	10,747	3.[illegible]0	[illegible]4.[illegible]2	[illegible]	145,289	1.[illegible]29	57,574.[illegible]4	9[illegible]	21
22	NEBRASKA	[illegible]	[illegible],[illegible]02	[illegible]3[illegible]	[illegible]1.76	[illegible]	149,[illegible]16	[illegible].[illegible]	[illegible]2,[illegible]213.[illegible]27	1,008	22
23	NORTH DAKOTA	[illegible]0.	[illegible]; 41	[illegible]	[illegible]	[illegible]	[illegible]3,[illegible]675	[illegible]	[illegible]. 3[illegible]	1,[illegible]40	23
24	SOUTH DAKOTA	31[illegible].[illegible]1	[illegible]0,[illegible]00	[illegible].[illegible]	[illegible]0.[illegible]3	[illegible]	14[illegible],[illegible]65	[illegible].[illegible]	[illegible]39.17[illegible]	[illegible],[illegible]6	24
25	**TOTALS**	**24,080.27**	**[illegible]0, 53**	[illegible]	**12.44**	[illegible]8.[illegible]3	[illegible]45,283	**1.46**	**231,493.09**	[illegible],[illegible]81	25
	SOUTH ATLANTIC										
26	DELAWARE	[illegible]7.[illegible]	[illegible]0,[illegible]97	[illegible].[illegible]	[illegible]	1[illegible].[illegible]45	149,[illegible]875	[illegible].21	[illegible]13.87	[illegible],[illegible]75	26
27	DISTRICT OF COLUMBIA		[illegible]1,[illegible]60	[illegible].[illegible]4	[illegible].[illegible]67	[illegible].[illegible]7	145,[illegible]769	[illegible].01	[illegible]1.[illegible]39	[illegible],[illegible]10	27
28	FLORIDA	[illegible]3.[illegible]	[illegible],[illegible]11	[illegible].[illegible]1	[illegible]	[illegible].[illegible]1[illegible]	149,162	[illegible].87	18[illegible],206.10	[illegible],[illegible]08	28
29	GEORGIA	[illegible].612.[illegible]	[illegible],[illegible]74	1.[illegible]	[illegible]	1[illegible].[illegible]20	147,[illegible]946	.50	57,341.30	1,038	29
30	MARYLAND	[illegible].[illegible]1	[illegible]2,[illegible]08	2.[illegible]	[illegible]4.[illegible]8	[illegible]5.8[illegible]	[illegible]47,[illegible]58	1.53	[illegible]03	1,[illegible]21	30
31	NORTH CAROLINA	[illegible].[illegible]4	[illegible]2, 52	1[illegible]	[illegible]3[illegible]9	[illegible]27	138,534	.17	10,771.70	1,040	31
32	SOUTH CAROLINA	[illegible]441.35	11,947	1.22	13.54	2,[illegible]5.42	[illegible]47,722	2.35	38,249.21	1,042	32
33	VIRGINIA	[illegible]1.91	12,[illegible]7	1.10	13.38	16,576.80	148,323	2.29	[illegible]94.20	1,162	33
34	WEST VIRGINIA	14,211.00	11,[illegible]81	2.67	15.70	[illegible]3.21	139,000	.25	660.90	[illegible]22	34
35	**TOTALS**	[illegible]3,[illegible]57.28	[illegible]1,[illegible]74	1.[illegible]2	**13.62**	78,170.06	148,473	**1.91**	**294,668.70**	**1,020**	35
	EAST SOUTH CENTRAL										
36	ALABAMA	16,233.70	11,481	2.47	15.11	134.59	138,739	.36	13,511.30	1,047	36
37	KENTUCKY	18,610.75	10,849	3.06	14.98	118.60	137,988	.20	8,689.10	1,034	37
38	MISSISSIPPI	482.90	12,049	2.81	10.69	401.36	148,829	2.51	94,579.80	1,046	38
39	TENNESSEE	14,653.00	10,992	2.86	16.[illegible]5	[illegible]5.24	137,163	.24	17,278.90	1,057	39
40	**TOTALS**	**49,980.35**	**11,108**	**2.80**	**15.32**	**779.79**	**143,565**	**1.42**	**134,059.10**	**1,047**	40
	WEST SOUTH CENTRAL										
41	ARKANSAS					71[illegible].07	150,031	2.00	107,349.66	1,017	41
42	LOUISIANA					[illegible]3.62	144,437	.79	357,078.15	1,063	42
43	OKLAHOMA	[illegible]	[illegible],[illegible]96	1.51	10.27	[illegible]2.43	142,341	.69	225,180.11	1,031	43
44	TEXAS					103.50	144,601	.96	1,035,037.25	1,031	44
45	**TOTALS**	[illegible]07	**12,496**	**1.51**	**10.27**	**959.62**	**148,771**	**1.75**	**1,724,645.17**	**1,037**	45
	MOUNTAIN										
46	ARIZONA	401.00	10,615	.42	8.13	[illegible]9.50	153,181	.95	53,906.44	1,073	46
47	COLORADO	[illegible],151.74	10,[illegible]52	[illegible].[illegible]6	8.59	[illegible]9.80	149,693	1.20	48,615.07	876	47
48	IDAHO										48
49	MONTANA	723.[illegible]0	[illegible],[illegible]06	.70	8.43	[illegible]6.00	153,095	4.20	2,497.40	1,096	49
50	NEVADA	[illegible]48.80	12,801	.66	6.01	[illegible]0.90	152,115	1.05	25,732.97	1,071	50
51	NEW MEXICO	5,458.00	[illegible],[illegible]963	.78	21.84	[illegible]5.44	149,054	.[illegible]1	42,675.52	1,057	51
52	UTAH	409.78	12,407	.55	4.85	[illegible]57.04	154,543	.87	[illegible],046.44	935	52
53	WYOMING	[illegible],130.54	8,294	.55	[illegible].12	[illegible].35	143,685	.22			53
[illegible]	TOTALS	[illegible]3,[illegible]23.06	[illegible],[illegible]456	.[illegible]5	13.26	2,245.03	[illegible]53,594	.95	[illegible]36,473.84	1,012	54
	PACIFIC										
[illegible]	CALIFORNIA					[illegible],[illegible]41.[illegible]	[illegible]47,[illegible]59[illegible]	.48	[illegible]4[illegible],03[illegible].96	1,[illegible]16	[illegible]
[illegible]	OREGON					[illegible]5[illegible]	[illegible]50,[illegible]60[illegible]	[illegible].[illegible]9	[illegible],467.40[illegible]	[illegible],[illegible]46	[illegible]
[illegible]	WASHINGTON						[illegible]4[illegible],[illegible]67	[illegible].[illegible]0			[illegible]
[illegible]	[illegible]					[illegible]9.[illegible]	[illegible]49,549	[illegible].[illegible]	[illegible]35,[illegible]49[illegible].3[illegible]	[illegible],[illegible]	[illegible]
[illegible]	[illegible]										[illegible]
[illegible]	[illegible]										[illegible]
[illegible]	[illegible]					[illegible]	[illegible],[illegible]92	[illegible]			[illegible]
[illegible]	[illegible]					[illegible]	[illegible],[illegible]49[illegible]	[illegible]			[illegible]
[illegible]	[illegible]					[illegible]	[illegible],[illegible]68[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TABLE 1-B

FUEL CONSUMPTION AND QUALITY, BY AIR QUALITY CONTROL REGION, 1970

AQCR NO	AIR QUALITY CONTROL REGION	COAL				OIL			GAS		AQCR NO
			AVERAGE				AVERAGE			AVERAGE	
		CONSUMPTION (1000 TONS)	HEATING VALUE (BTU/LB.)	SULFUR (%)	ASH (%)	CONSUMPTION (1000 BBLS)	HEATING VALUE (BTU/GAL.)	SULFUR (%)	CONSUMPTION (1000 MCF)	HEATING VALUE (BTU/CF.)	
1	ALABAMA AND TOMBIGBEE RIVERS										1
2	COLUMBUS-PHENIX CITY										2
3	EAST ALABAMA	134.30	12,041	1.50	11.71	.52	137,300	.50	5,055.80	1,038	3
4	METROPOLITAN BIRMINGHAM	6,581.60	11,788	1.37	13.99	30.73	136,875	.46			4
5	MOBILE-PENSAC.-RAN. CITY-SO MISS	4,025.70	12,060	2.49	12.13	518.06	144,626	1.78	116,582.48	1,041	5
6	SOUTHEAST ALABAMA										6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	7,380.20	10,966	3.51	17.12	56.04	138,306	.19			7
8	COOK INLET										8
9	NORTHERN ALASKA										9
10	SOUTH CENTRAL ALASKA										10
11	SOUTHEASTERN ALASKA										11
12	ARIZONA-NEW MEX. SOUTHERN BORDER								2,255.02	1,070	12
13	CLARK-MOHAVE	548.80	12,801	.66	6.01	9.80	143,112	.79	13,979.87	1,083	13
14	FOUR CORNERS	5,859.00	9,076	.76	20.90				2,026.30	1,078	14
15	PHOENIX-TUCSON					19.50	153,181	.95	52,347.44	1,073	15
16	CENTRAL ARKANSAS					231.30	150,000	2.00	40,271.80	1,017	16
17	METROPOLITAN FORT SMITH										17
18	METROPOLITAN MEMPHIS	1,271.30	11,435	3.16	12.17	1.41	138,051	.21	17,278.90	1,057	18
19	MONROE-EL DORADO					441.27	150,102	1.98	19,672.35	997	19
20	NORTHEAST ARKANSAS					14.00	150,000	1.55	58,061.79	1,020	20
21	NORTHWEST ARKANSAS								2,069.54	1,022	21
22	SHREVEPORT-TEXARKANA-TYLER					56.24	148,685	2.39	123,641.38	1,045	22
23	GREAT BASIN VALLEY										23
24	METROPOLITAN LOS ANGELES					17,125.26	146,012	.31	363,065.30	1,063	24
25	NORTH CENTRAL COAST					30.21	152,904	1.40	75,358.56	1,086	25
26	NORTH COAST								2,534.64	1,010	26
27	NORTHEAST PLATEAU										27
28	SACRAMENTO VALLEY										28
29	SAN DIEGO					2,276.00	151,420	1.07	39,899.00	1,064	29
30	SAN FRANCISCO BAY AREA					2,144.69	155,499	1.22	106,656.91	1,055	30
31	SAN JOAQUIN VALLEY								68.56	1,094	31
32	SOUTH CENTRAL COAST					13.66	152,833	1.50	34,628.49	1,089	32
33	SOUTHEAST DESERT					1.41	150,618	1.28	11,820.50	1,078	33
34	COMANCHE										34
35	GRAND MESA	195.71	11,776	.63	8.87	.06	140,171	.19	2,028.47	851	35
36	METROPOLITAN DENVER	2,177.63	10,672	.55	7.89	241.10	150,235	1.25	33,047.00	843	36
37	PAWNEE										37
38	SAN ISABEL	182.40	10,255	.74	13.95	37.54	146,803	.90	13,539.60	959	38
39	SAN LUIS										39
40	YAMPA	596.00	10,858	.54	9.45	1.10	130,000	.20			40
41	EASTERN CONNECTICUT	351.91	12,331	2.00	13.86	491.16	148,700	1.89			41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	1,214.91	11,394	2.57	17.94	13,055.87	148,548	2.09	1,018.92	1,000	42
43	NEW JERSEY-NEW YORK-CONNECTICUT	5,145.43	12,543	1.49	11.90	94,693.35	146,938	1.20	118,994.70	1,035	43
44	NORTHWESTERN CONNECTICUT										44
45	METROPOLITAN PHILADELPHIA	4,310.61	12,864	2.76	9.63	34,069.14	147,722	1.24	23,162.28	1,029	45
46	SOUTHERN DELAWARE	767.00	11,823	2.38	14.71	116.00	137,635	.20			46
47	NATIONAL CAPITAL	4,267.80	12,279	1.82	14.08	8,617.12	146,717	1.71	1.39	1,100	47
48	CENTRAL FLORIDA					4,643.50	149,408	2.26	46,526.90	1,013	48
49	JACKSONVILLE-BRUNSWICK	313.00	11,719	2.33	12.79	8,044.16	149,440	1.33	12,921.90	1,039	49
50	SOUTHEAST FLORIDA					14,730.83	148,743	1.92	89,940.50	1,001	50
51	SOUTHWEST FLORIDA					3,709.00	150,590	1.58	2,135.00	1,026	51
52	WEST CENTRAL FLORIDA	3,743.30	11,291	3.57	11.82	9,508.30	149,028	2.17	10,747.70	1,025	52
53	AUGUSTA-AIKEN	253.90	12,363	1.17	12.51	2.10	138,526	.10	11,400.80	1,045	53
54	CENTRAL GEORGIA	3,686.00	12,069	1.60	11.93				6,991.00	1,047	54
55	CHATTANOOGA	1,023.00	11,473	3.10	10.87						55
56	METROPOLITAN ATLANTA	2,135.00	11,693	1.82	11.67				41,709.00	1,035	56
57	NORTHEAST GEORGIA										57
58	SAVANNAH-BEAUFORT	719.20	12,525	1.49	12.06	1,508.68	147,312	2.48	14,854.90	1,046	58
59	SOUTHWEST GEORGIA	453.00	12,142	2.08	9.87						59
60	HAWAII (ENTIRE STATE)					6,061.40	154,221	1.16			60
61	EASTERN IDAHO										61
62	EASTERN WASH.-NORTHERN IDAHO										62
63	IDAHO										63
64	METROPOLITAN BOISE										64
65	BURLINGTON-KEOKUK	3,579.06	10,474	3.02	9.24	21.83	138,010	.37	2,772.78	1,000	65
66	EAST CENTRAL	670.72	11,180	2.75	9.47	.10	140,000	.10			66
67	METROPOLITAN CHICAGO	14,459.08	10,500	3.16	11.39	2,484.30	147,543	.78	99,783.91	1,033	67
68	METROPOLITAN DUBUQUE	815.50	10,936	3.30	11.09	3.36	140,073	.29	1,900.00	1,005	68
69	METROPOLITAN QUAD CITIES	859.70	10,691	2.58	10.53	5.50	137,645	.40	19,675.00	1,042	69
70	METROPOLITAN ST. LOUIS	8,157.30	11,022	2.97	12.51	637.80	151,193	2.20	15,462.90	1,045	70
71	NORTH CENTRAL ILLINOIS	772.20	11,630	2.95	10.14				9,969.20	1,048	71
72	RAOUCAH-CAIRO	14,421.06	10,716	3.27	15.17	125.36	138,054	.20			72
73	ROCKFORD-JANESVILLE-BELOIT	743.10	11,163	2.92	9.78	1.00	141,040	.33	11,475.20	1,043	73
74	SOUTHEAST ILLINOIS	1,001.40	10,960	2.71	14.70	12.70	137,749	.31			74
75	WEST CENTRAL ILLINOIS	5,194.70	9,931	4.15	14.77	19.40	138,047	.40	83.50	992	75
76	EAST CENTRAL INDIANA	4,473.31	10,861	3.81	12.90	32.70	137,160	.20	132.20	1,000	76
77	EVANSVILLE-OWENSBORO-HENDERSON	3,940.80	11,385	3.37	11.03	32.00	140,000	.31	8,556.90	1,035	77
78	LOUISVILLE										78
79	METROPOLITAN CINCINNATI	6,644.80	11,095	3.15	14.94	165.80	138,000	.40	10,931.80	1,013	79
80	METROPOLITAN INDIANAPOLIS	1,893.30	11,214	3.07	10.52	21.10	140,000	.31	55.00		80
81	NORTHEAST INDIANA										81
82	SOUTH BEND-ELKHART-RENTON HARBOR	1,042.68	10,668	3.34	13.40				3,508.97	1,000	82
83	SOUTHERN INDIANA	3,904.00	11,031	3.12	11.68						83
84	WABASH VALLEY	4,502.70	10,888	2.91	10.81	108.00	140,000	.31			84

TABLE 1-B

(Contd)- FUEL CONSUMPTION AND QUALITY, BY AIR QUALITY CONTROL REGION, 1970

AQCR NO	AIR QUALITY CONTROL REGION	COAL				OIL			GAS		AQCR NO
			AVERAGE				AVERAGE			AVERAGE	
		CONSUMPTION (1000 TONS)	HEATING VALUE (BTU/LB.)	SULFUR (%)	ASH (%)	CONSUMPTION (1000 BBLS)	HEATING VALUE (BTU/GAL.)	SULFUR (%)	CONSUMPTION (1000 MCF)	HEATING VALUE (BTU/CF.)	
85	METROPOL. OMAHA-COUNCIL BLUFFS	1,058.10	11,659	2.66	10.77				22,268.76	1,003	85
86	METROPOLITAN SIOUX CITY	219.77	10,446	.94	9.13	2.07	140,000	1.00	6,392.54	1,007	86
87	METROPOLITAN SIOUX FALLS	31.81	10,400	2.23	10.03	257.96	143,365	.80	2,659.17	1,006	87
88	NORTHEAST IOWA	854.50	10,158	2.53	9.63	5.14	150,137	1.62	10,125.00	1,035	88
89	NORTH CENTRAL IOWA										89
90	NORTHWEST IOWA										90
91	SOUTHEAST IOWA										91
92	SOUTH CENTRAL IOWA	845.10	9,557	4.10	14.74	8.10	140,000	.30	20,562.10	1,004	92
93	SOUTHWEST IOWA										93
94	METROPOLITAN KANSAS CITY	1,918.68	11,632	3.23	11.54	50.54	147,320	1.76	59,327.40	963	94
95	NORTHEAST KANSAS	675.69	11,395	3.14	11.11	77.74	142,841	1.36	27,912.45	1,017	95
96	NORTH CENTRAL KANSAS					19.44			844.10	981	96
97	NORTHWEST KANSAS					19.40	150,000	.90	6,689.00	961	97
98	SOUTHEAST KANSAS	23.41	11,863	3.52	13.06	33.98	155,000	2.25	12,617.81	1,040	98
99	SOUTH CENTRAL KANSAS					159.28	154,000	1.50	69,949.08	1,012	99
100	SOUTHWEST KANSAS					27.30	150,000	.80	9,769.00	974	100
101	APPALACHIAN	80.84	11,523	1.78	16.95						101
102	BLUEGRASS	1,026.66	11,510	1.95	13.88						102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON	7,992.20	11,198	2.45	15.66	42.10	137,116	.10			103
104	NORTH CENTRAL KENTUCKY										104
105	SOUTH CENTRAL KENTUCKY	689.98	11,060	2.58	15.49	3.64	138,600	.12			105
106	SOUTHERN LOUISIANA-SE TEXAS					63.12	144,437	.79	401,411.80	1,056	106
107	ANDROSCOGGIN VALLEY					1,490.00	148,825	2.01			107
108	ARCOSTOOK										108
109	DOWN EAST										109
110	METROPOLITAN PORTLAND					2,525.00	148,148	1.98			110
111	NORTHWEST MAINE										111
112	CENTRAL MARYLAND										112
113	CUMBERLAND-KEYSER	2,897.10	11,625	2.40	18.25	5.90	139,000	.25			113
114	EASTERN SHORE	212.00	12,427	2.12	14.29	178.00	144,953	1.23			114
115	METROPOLITAN BALTIMORE	2,579.85	12,843	2.21	11.67	8,119.19	147,565	1.58	130.03	1,021	115
116	SOUTHERN MARYLAND	160.66	12,022	2.21	15.53	1,492.61	148,430	1.88			116
117	BERKSHIRE										117
118	CENTRAL MASSACHUSETTS	55.30	13,081	.88	7.16	11.00	138,000	.18			118
119	METROPOLITAN BOSTON					19,936.20	148,593	1.98	1,238.50	1,000	119
120	METROPOLITAN PROVIDENCE	3.60	12,859	1.40	10.90	21,743.20	148,877	2.14	4,145.00	1,021	120
121	MERRIMACK VALLEY-SOUTHERN N.H.	977.00	13,459	2.42	7.15	2,002.00	148,123	2.16			121
122	CENTRAL MICHIGAN	5,853.42	11,496	2.65	12.78	125.03	140,000	.32			122
123	METROPOLITAN DETROIT-PORT HURON	11,791.80	11,862	2.58	12.78	4,187.25	146,281	1.86	67,728.00	766	123
124	METROPOLITAN TOLEDO	2,818.24	11,735	2.45	13.45	1,037.24	138,638	.48	2,002.00	548	124
125	SOUTH CENTRAL MICHIGAN	994.30	12,152	2.40	11.84	41.39	136,907	.49	14,683.37	1,021	125
126	UPPER MICHIGAN	487.70	12,817	1.70	10.40						126
127	CENTRAL MINNESOTA										127
128	SOUTHEAST MINNESOTA-LA CROSSE	1,447.71	9,910	3.45	18.63	387.84	150,662	2.67	2,176.47	1,005	128
129	DULUTH-SUPERIOR	1,396.40	9,332	1.37	9.94				405.20	1,012	129
130	METROPOLITAN FARGO-MOORHEAD										130
131	MINNEAPOLIS-ST. PAUL	3,447.10	11,013	3.34	11.34	276.73	134,433	.45	39,374.05	991	131
132	NORTHWEST MINNESOTA	703.52	7,114	.75	6.17	1.22	140,000	.35			132
133	SOUTHWEST MINNESOTA	64.24	11,491	2.53	12.97	.70	134,200	.30	711.92	1,005	133
134	MISSISSIPPI DELTA					83.95	156,000	2.90	5,386.92	1,016	134
135	NORTHEAST MISSISSIPPI										135
136	NORTHERN PIEDMONT	818.62	12,137	1.00	13.54						136
137	NORTHERN MISSOURI	1,415.36	9,899	4.46	14.16						137
138	SOUTHEAST MISSOURI										138
139	SOUTHWEST MISSOURI	2,215.57	9,579	6.07	24.32	8.50	137,798	.60	8,425.00	1,001	139
140	BILLINGS	403.00	8,591	.69	8.66	26.00	153,095	4.20	2,469.00	1,097	140
141	GREAT FALLS										141
142	HELENA										142
143	MILES CITY	320.50	6,593	.72	8.13				28.40	1,060	143
144	MISSOULA										144
145	LINCOLN-BEATRICE-FAIRBURY	183.33	12,168	3.78	13.02	8.10	146,922	4.27	7,430.25	1,004	145
146	NEBRASKA					14.87	150,373	.42	2,598.96	1,060	146
147	NEVADA										147
148	NORTHWEST NEVADA					51.10	153,559	1.09	13,290.10	1,057	148
149	NEW HAMPSHIRE										149
150	NEW JERSEY	919.08	13,065	1.99	9.61	4.32	139,703	.10			150
151	NE PENN.-UPPER DELAWARE VALLEY	3,149.60	11,866	2.44	15.17	211.41	138,340	.39	2,327.00	1,035	151
152	ALBUQUERQUE-MID RIO GRANDE					84.20	149,018	.80	14,949.20	1,103	152
153	EL PASO-LAS CRUCES-ALAMOGUROO					1.30	151,701	1.70	20,588.00	1,085	153
154	NORTHEASTERN PLAINS										154
155	PECOS-PERMIAN BASIN								16,804.00	1,000	155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN										156
157	UPPER RIO GRANDE VALLEY										157
158	CENTRAL NEW YORK	833.00	13,185	2.54	8.75						158
159	CHAMPLAIN VALLEY	54.90	12,513	3.17	10.80						159
160	GENESEE-FINGER LAKES	1,449.66	12,130	2.71	13.49	152.46	137,585	.21	9.22	538	160
161	HUDSON VALLEY	1,532.00	12,002	2.40	14.71	1,785.11	148,698	2.12	3,439.00	1,021	161
162	NIAGARA FRONTIER	1,710.00	12,689	2.45	10.82						162
163	SOUTHERN TIER EAST	580.05	10,913	2.00	21.27	19.74	138,255	.10			163
164	SOUTHERN TIER WEST	2,382.57	11,695	1.91	16.17	14.93	137,565	.14			164
165	EASTERN MOUNTAIN	5,225.07	11,904	1.00	14.05	31.58	140,000	.25			165
166	EASTERN PIEDMONT	3,372.00	12,254	1.49	13.75	57.22	137,500	.08			166
167	METROPOLITAN CHARLOTTE	6,002.12	11,962	1.00	14.14	100.51	139,297	.25	871.80	1,032	167
168	NORTHERN COASTAL PLAIN										168

TABLE 1-6

[illegible]-FUEL CONSUMPTION AND QUALITY BY AIR QUALITY CONTROL REGION, 1970

AIR QUALITY CONTROL REGION	COAL				OIL			GAS		COUNTY CODE
		AVERAGE				AVERAGE			AVERAGE	
	CONSUMPTION (1000 TONS)	HEATING VALUE (BTU/LB.)	SULFUR (%)	ASH (%)	CONSUMPTION (1000 BBLS)	HEATING VALUE (BTU/GAL.)	SULFUR (%)	CONSUMPTION (1000 MCF)	HEATING VALUE (BTU/CF.)	
[illegible]SANDHILLS	263.70	12,884	.95	9.20	7.70	137,500	.08	4,387.60	1,041	169
[illegible]SOUTHERN COASTAL PLAIN	1,462.50	12,417	1.32	11.38	49.10	137,500	.08	5,512.30	1,041	170
WESTERN [illegible]NTAIN	527.40	11,704	1.20	13.45	4.96	137,500	.08			171
172 NORTH DAKOTA	2,770.20	6,841	.76	7.41	24.30	138,675	.10	.33	1,040	172
173 DAYTON	2,108.38	11,865	1.48	12.10	.62	140,000	.75	721.70	1,045	173
174 GREATER METROPOLITAN [illegible]EVELAND	2,193.24	11,298	2.55	13.92	171.22	139,644	.23			174
175 MANSFIELD-MARION										175
176 METROPOLITAN COLUMBUS	810.60	11,191	3.29	12.54						176
177 NORTHWEST OHIO	7.6	12,100	2.98	14.67						177
178 NORTHWEST PENN.-YOUNGSTOWN	4,873.20	11,657	3.60	16.03	73.00	138,648	.19			178
179 PARKERSBURG-MARIETTA	5,190.00	10,415	4.51	18.91	3.39	139,000	.25			179
180 SANDUSKY										180
181 STEUBENVILLE-WEIRTON-WHEELING	11,526.40	11,541	3.11	15.54						181
182 WILMINGTON-HILLSBORO-LOGAN										182
183 ZANESVILLE-CAMBRIDGE	2,[illegible]7.00	10,760	4.07	15.78						183
184 CENTRAL OKLAHOMA	.71	12,971	1.30	10.00	22.45	140,969	.10	89,846.60	1,032	184
185 NORTH CENTRAL OKLAHOMA	.26	11,200	2.10	11.00				1,186.50	1,055	185
186 NORTHEASTERN OKLAHOMA					19.32	138,326	.39	82,785.70	1,018	186
187 NORTHWESTERN OKLAHOMA								9,359.25	1,037	187
188 SOUTHEASTERN OKLAHOMA								7,326.90	1,056	188
189 SOUTHWESTERN OKLAHOMA					20.66	146,497	.99	34,675.16	1,055	189
190 CENTRAL REGION										190
191 EASTERN REGION										191
192 NORTHWEST REGION										192
193 PORTLAND					76.49	150,256	1.63	1,467.40	1,046	193
194 SOUTHWEST REGION										194
195 CENTRAL PENNSYLVANIA	1,767.10	11,577	2.64	16.27	.38	137,956	.14			195
196 SOUTH CENTRAL PENNSYLVANIA	[illegible].60	11,761	2.54	16.69	282.8	139,534	.2			196
197 SOUTHEAST PENNSYLVANIA	[illegible]5.6	[illegible]866	2.41	16.0	44.9	138,821	.21	[illegible].6	1,050	197
198 CAMDEN-SUMTER										198
199 CHARLESTON	[illegible].7	1,170	1.70	[illegible].1	1,511.2	148,462	.5	3[illegible].0	1,14[illegible]	199
200 COLUMBIA	642.[illegible]	12,059	1.15	[illegible].65	7[illegible]	138,143	.10	7[illegible].40	1,049	200
201 FLORENCE	97[illegible]	[illegible],723	1.20	10.47	[illegible]	137,500	.10	[illegible].80	[illegible].04	201
202 GREENVILLE-SPARTANBURG	[illegible].61	[illegible],937	1.00	[illegible]				7[illegible].24	[illegible].031	202
203 GREENWOOD	[illegible]	3,51[illegible]	[illegible]	8.10				[illegible]1	1,[illegible]35	203
204 SUMTER AN[illegible]	[illegible]	[illegible],06[illegible]	[illegible]	7.24						204
205 BLACK HILLS-RAPID CITY										205
206 SOUTH DAKOTA										206
207 EASTERN TENN.-SOUTHWESTERN	[illegible]1,[illegible]	1,2[illegible]1	1.60	[illegible].65	[illegible]1	[illegible]47,[illegible]F	.25			207
208 MIDDLE TENNESSEE	2,352.50	10,830	3.86	15.53	1[illegible].46	136,841	.15			208
209 NORTHEASTERN TENNESSEE										209
210 [illegible]					5.36	40,[illegible]08	.47	2,[illegible]02.20	1,040	210
211 AMARILLO-LUBBOCK								63,[illegible]03.50	974	211
212 AUSTIN-WACO					[illegible].4[illegible]	143,327	.45	78,[illegible]11.89	1,016	212
213 BROWNSVILLE-LAREDO								41,789.00	1,037	213
214 CORPUS CHRISTI-VICTORIA								41,890.00	1,021	214
215 METROPOLITAN DALLAS-FORT WORTH					27.03	146,300	.66	174,149.21	1,041	215
216 METROPOLITAN HOUSTON-GALVESTON					[illegible].2	153,813	2.90	273,600.30	1,035	216
217 METROPOLITAN SAN ANTONIO					21.[illegible]4	144,754	1.92	53,432.80	1,030	217
218 MIDLAND-ODESSA-SAN ANGELO					1.28	138,496	.15	30,672.50	1,36[illegible]	218
219 UTAH	391.28	12,408	.55	9.62	2.94	140,000	.10			219
220 WASATCH FRONT	18.50	12,387	.55	5.83	1,754.[illegible]7	54,567	.87	3,046.44	935	220
221 VERMONT										221
222 CENTRAL VIRGINIA										222
223 HAMPTON ROADS	792.[illegible]0	13,194	2.04	7.[illegible]3	5,933.60	148,437	2.19	394.20	.162	223
224 NORTHEASTERN VIRGINIA	580.40	12,757	1.15	10.60						224
225 STATE CAPITAL	1,403.60	12,773	1.28	10.78	5,423.10	148,246	2.41			225
226 VALLEY OF VIRGINIA	1,[illegible]03.00	11,513	1.12	17.54	3.[illegible]	[illegible]39,000	.25			226
227 NORTHERN WASHINGTON										227
228 OLYMPIA-NORTHWEST WASHINGTON										228
229 PUGET SOUND					.[illegible]2	143,087	.10			229
230 SOUTH CENTRAL WASHINGTON										230
231 ALLEGHENY										231
232 CENTRAL WEST VIRGINIA										232
233 EASTERN PANHANDLE										233
[illegible] KANAWHA VALLEY	[illegible]4[illegible].50	[illegible]1,765	1.07	14.65						4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]30,[illegible]00	[illegible]	[illegible]	[illegible]977	35
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]145	[illegible]	[illegible]4[illegible],[illegible]62	[illegible]	[illegible]	[illegible]	[illegible]47
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]1,[illegible]4	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]1,[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]92	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]1,[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TABLE

ESTIMATED ANNUAL EMISSIONS BY REGION AND STATE, 19[illegible]

LINE NO.	GEOGRAPHIC REGION AND STATE	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS) PARTICULATES	SULFUR DIOXIDE	NITROGEN OXIDES	LINE NO.
	NEW ENGLAND						
	[illegible]	3,871.75	18,675.80	10.38			
2		361.00	2,227.20	.30		.68	
3	MASSACHUSETTS	5,314.64	27,408.30	9.71	[illegible]	[illegible].29	
4	NEW HAMPSHIRE	637.99	3,796.60	1.21	[illegible]	36.28	4
5	RHODE ISLAND	305.88	1,[illegible]50	[illegible]	[illegible]	[illegible]	5
6	VERMONT	30.00	[illegible]60	[illegible]	[illegible]	.41	
7	TOTALS	10,521.25	53,7[illegible]	23.[illegible]	[illegible]	206.58	7
	MIDDLE ATLANTIC						
8	NEW JERSEY	[illegible]	35.8[illegible]	2[illegible].5	[illegible].9	[illegible]	
9	NEW YORK	[illegible]	6[illegible]	12[illegible].1	[illegible]	[illegible]	
10	PENNSYLVANIA	[illegible]	7[illegible]	3[illegible].6	[illegible]	[illegible]	10
11	TOTALS	38,94[illegible]	177.0[illegible]73	46.3[illegible]	[illegible]	[illegible].01	11
	EAST NORTH CENTRAL						
12	ILLINOIS	15,685.57	70,998.30	358.08	[illegible]	[illegible]	1
13	INDIANA	[illegible]	50.5[illegible]	[illegible]	[illegible]	[illegible].08	1
14	MICHIGAN	[illegible]	5[illegible].7[illegible]	[illegible]	[illegible]	[illegible].41	
15	OHIO	[illegible]	17,9[illegible]	[illegible].83	[illegible]	[illegible].59	
16	WISCONSIN	5,60[illegible]	22.[illegible]	14[illegible].28	5[illegible]	[illegible]	
17	TOTALS	56,66[illegible].14	273.9[illegible]	1,52[illegible].32	7,02[illegible]	1,5[illegible].51	
	WEST NORTH CENTRAL						
18	[illegible]	2,177.66	10,076.9[illegible]	63.28	200.1	57.55	
	[illegible]	2,7[illegible].48	13,635.3[illegible]	11.58	25.6	34.10	
	[illegible]	2,9[illegible].36	14,578.8[illegible]	60.0	284.4	70.33	20
21	MISSOURI	6,3[illegible].24	25,786.2[illegible]	35.70	790.2[illegible]	198.83	21
	[illegible]	1,2[illegible].55	4,976.60	16.27	61.3[illegible]	17.66	22
	NORTH DAKOTA	7[illegible].50	3,225.90	29.15	41.2[illegible]	26.04	
24	SOUTH [illegible]	12[illegible].00	355.30	.40	2.0[illegible]	1.35	
	[illegible]	16,267.79	72,635.0[illegible]	218.39	1,405.2[illegible]	405.86	2[illegible]
	SOUTH ATL[illegible]						
26	DELAWARE	859.8[illegible]	[illegible]	1.4[illegible]	[illegible]	[illegible]	26
[illegible]	DIST. OF COLUMBIA	8[illegible].0	[illegible]	[illegible]	[illegible]	[illegible]	27
28	[illegible]	12.08	[illegible]	[illegible]	[illegible]	[illegible]	28
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29
30	MARYLAND	[illegible]	22,365.[illegible]	76.5[illegible]	249.[illegible]	123.82	30
31	NORTH CAROLINA	[illegible]	20,200.[illegible]	57[illegible]	[illegible]	[illegible]	31
32	SOUTH CAROLINA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	32
33	VIRGINIA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	33
34	WEST VIRGINIA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34
35	TOTALS	43,5[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35
	EAST SOUTH CENTRAL						
	ALABAMA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	KENTUCKY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	MISSISSIPPI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
39	TENNESSEE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	39
40	TOTALS	25,[illegible]	[illegible]	[illegible]	2,183.[illegible]	[illegible]	40
	WEST SOUTH CENTRAL						
41	ARKANSAS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41
42	LOUISIANA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	42
	[illegible]	[illegible]	[illegible]	.07	[illegible]	[illegible]	[illegible]
43	TOTALS	37,622.12	169,893.52	.18	5.31	338.9[illegible]	43
	MOUNTAIN						
46	ARIZONA	1,918.80	6,395.[illegible]	5.54	3.3	14.16	[illegible]
[illegible]	[illegible]	2,010.00	10,193.[illegible]	25.5	35.9	37.54	47
48	IDAHO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48
	[illegible]	201.80	1,206.80	3.70	10.34	[illegible].05	49
50	NEVADA	2,[illegible]	3,[illegible].20	[illegible].23	[illegible].31	[illegible]	50
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	51
52	UTAH	[illegible]	2,[illegible]42.5	[illegible]	[illegible]	[illegible]	52
53	WYOMING	830.90	4,984.40	3.6	9.50	8.12	53
	TOTALS	11,039.09	42,565.60	40.1	33.75	28.19	
	PACIFIC			194.70	180.43	166.06	54
	CALIFORNIA	15,722.56	82,782.9[illegible]	3.2[illegible]	34.9[illegible]	171.30	55
56	OREGON	[illegible]	[illegible]	[illegible]	4[illegible]	[illegible]	[illegible]
57	WASHINGTON	[illegible].0[illegible]	3,0[illegible].4	[illegible]	[illegible]	[illegible]	[illegible]
58	TOTALS	20,871.00	85,893.43	3.28	35.40	171.85	58
	NON-CONTIGUOUS U.S.						
	ALASKA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	HAWAII	9[illegible]	3,643.47	.9[illegible]	[illegible]	[illegible]	[illegible]
61	PUERTO RICO	1,567.00	6,340.10	2.0[illegible]	8[illegible]	27.34	61
62	VIRGIN ISLANDS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	TOTALS	2,474.93	9,9[illegible]	3.0	1[illegible]	[illegible]	[illegible]
[illegible]	U.S. [illegible]	263,2[illegible].76	1,230.43[illegible]	4,249.85	17,520.6	5,139.35	[illegible]

TABLE 2-B

ESTIMATED ANNUAL EMISSIONS, BY AIR QUALITY CONTROL REGION, 1970

AQCR NO	AIR QUALITY CONTROL REGION	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS)			AQCR NO
				PARTICULATES	SULFUR OIOXIDE	NITROGEN OXIDES	
1	ALABAMA AND TOMBIGBEE RIVERS						1
2	COLUMBUS-RHENIX CITY						2
3	EAST ALABAMA	138.00	683.60	2.85	3.95	2.20	3
4	METROPOLITAN BIRMINGHAM	2,325.00	15,887.70	180.52	177.10	77.41	4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	4,222.93	20,615.72	44.38	199.60	68.20	5
6	SOUTHEAST ALABAMA						6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	3,374.51	16,667.90	326.32	507.22	59.21	7
8	COOK INLET						8
9	NORTHERN ALASKA						9
10	SOUTH CENTRAL ALASKA						10
11	SOUTHEASTERN ALASKA						11
12	ARIZONA-NEW MEX. SOUTHERN BORDER	51.50	182.80			.44	12
13	CLARK-MOHAVE	2,084.15	2,702.80	4.22	3.59	10.94	13
14	FOUR CORNERS	2,383.40	10,773.10	117.37	86.74	53.12	14
15	PHOENIX-TUCSON	1,730.20	5,403.90		.06	10.25	15
16	CENTRAL ARKANSAS	1,016.75	3,824.90	.04	1.56	8.37	16
17	METROPOLITAN FORT SMITH						17
18	METROPOLITAN MEMPHIS	990.00	5,566.50	5.10	78.74	38.33	18
19	MONROE-EL DORADO	517.53	1,721.60			3.85	19
20	NORTHEAST ARKANSAS	1,161.64	6,152.50	.07	2.94	12.30	20
21	NORTHWEST ARKANSAS	59.84	195.50		.07	.43	21
22	SHREVEPORT-TEXARKANA-TYLER	2,629.29	12,050.80		.20	24.24	22
23	GREAT BASIN VALLEY						23
24	METROPOLITAN LOS ANGELES	10,707.66	49,336.22	2.51	17.79	108.71	24
25	NORTH CENTRAL COAST	2,174.70	8,967.90	.01	.14	14.76	25
26	NORTH COAST	162.40	174.40			.49	26
27	NORTHEAST PLATEAU						27
28	SACRAMENTO VALLEY						28
29	SAN DIEGO	1,598.00	7,715.20	.39	8.16	12.81	29
30	SAN FRANCISCO BAY AREA	3,522.40	11,503.20	.36	8.82	25.52	30
31	SAN JOAQUIN VALLEY	165.50				.01	31
32	SOUTH CENTRAL COAST	1,056.30	3,883.30		.07	6.78	32
33	SOUTHEAST DESERT	335.60	1,202.70			2.31	33
34	COMANCHE						34
35	GRAND MESA	109.50	520.60	2.63	2.40	2.06	35
36	METROPOLITAN DENVER	1,448.80	6,947.20	19.34	24.50	25.53	36
37	RAWNEE						37
38	SAN ISABEL	288.50	1,408.50	2.37	2.78	4.58	38
39	SAN LUIS						39
40	YAMRA	163.20	1,316.90	1.24	6.31	5.37	40
41	EASTERN CONNECTICUT	837.50	987.40	4.30	16.92	4.23	41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	2,488.74	14,165.20	8.04	147.83	40.46	42
43	NEW JERSEY-NEW YORK-CONNECTICUT	16,683.76	72,906.79	19.78	530.82	284.13	43
44	NORTHWESTERN CONNECTICUT						44
45	METROPOLITAN PHILADELPHIA	5,093.35	29,268.20	33.34	374.70	127.92	45
46	SOUTHERN DELAWARE	340.00	1,912.60	1.35	35.86	7.16	46
47	NATIONAL CAPITAL	3,145.00	15,239.20	44.06	201.95	59.28	47
48	CENTRAL FLORIDA	1,516.55	7,366.20	.34	35.23	19.30	48
49	JACKSONVILLE-BRUNSWICK	1,512.66	6,325.20	1.88	50.40	25.09	49
50	SOUTHEAST FLORIDA	3,568.24	17,803.20	.45	95.04	50.03	50
51	SOUTHWEST FLORIDA	619.80	2,565.40	.24	19.64	8.59	51
52	WEST CENTRAL FLORIDA	3,926.80	14,784.03	15.65	331.34	87.89	52
53	AUGUSTA-AIKEN	250.00	1,775.90	.21	5.82	6.03	53
54	CENTRAL GEORGIA	1,927.00	10,080.80	16.14	115.58	55.29	54
55	CHATTANOOGA	875.00	1,959.30	23.66	62.04	15.32	55
56	METROPOLITAN ATLANTA	1,280.00	5,172.22	26.39	76.19	39.43	56
57	NORTHEAST GEORGIA						57
58	SAVANNAH-BEAUFORT	815.10	4,039.90	7.52	33.54	17.02	58
59	SOUTHWEST GEORGIA	218.00	1,052.60	5.71	18.51	4.09	59
60	HAWAII (ENTIRE STATE)	907.93	3,643.47	.97	23.53	13.36	60
61	EASTERN IDAHO						61
62	EASTERN WASH.-NORTHERN IDAHO						62
63	IDAHO						63
64	METROPOLITAN BOISE						64
65	BURLINGTON-KEOKUK	1,581.82	6,707.80	117.74	211.65	42.99	65
66	EAST CENTRAL	212.30	1,160.80	7.65	36.18	5.81	66
67	METROPOLITAN CHICAGO	9,530.50	43,181.00	39.11	901.14	251.49	67
68	METROPOLITAN DUBUQUE	370.25	1,844.80	12.78	52.81	18.46	68
69	METROPOLITAN QUAD CITIES	580.85	2,157.70	10.75	43.46	14.58	69
70	METROPOLITAN ST. LOUIS	4,235.10	18,585.60	36.18	479.71	136.92	70
71	NORTH CENTRAL ILLINOIS	430.00	2,653.00	8.14	44.68	10.65	71
72	PADUCAH-CAIRO	5,657.20	30,760.70	103.08	924.20	230.94	72
73	ROCKFORD-JANESVILLE-BELOIT	421.00	2,398.50	8.08	42.54	16.61	73
74	SOUTHEAST ILLINOIS	445.14	2,047.90	52.86	53.26	9.03	74
75	WEST CENTRAL ILLINOIS	2,307.57	9,860.60	47.07	422.67	128.69	75
76	EAST CENTRAL INDIANA						76
77	EVANSVILLE-OWENSBORO-HENDERSON	1,686.34	9,029.10	42.34	333.88	51.52	77
78	LOUISVILLE	2,004.50	9,406.27	4.22	260.36	37.22	78
79	METROPOLITAN CINCINNATI	3,141.25	15,868.15	130.51	410.80	81.72	79
80	METROPOLITAN INDIANAPOLIS	848.73	3,290.40	29.64	114.04	18.49	80
81	NORTHEAST INDIANA						81
82	SOUTH BEND-ELKHART-BENTON HARBOR	609.03	2,109.00	52.26	68.25	17.76	82
83	SOUTHERN INDIANA	1,304.00	9,057.10	11.56	238.74	58.56	83
84	WABASH VALLEY	2,297.25	9,462.40	95.23	257.32	61.75	84

TABLE 2-B

(Contd) - ESTIMATED ANNUAL EMISSIONS, BY AIR QUALITY CONTROL REGION, 1970

AQCR NO	AIR QUALITY CONTROL REGION	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS)			AQCR NO
				PARTICULATES	SULFUR OIOXIOE	NITRUGEN OXIOES	
85	METROPOL. OMAHA-COUNCIL BLUFFS	1,062.30	4,512.70	20.32	55.15	13.81	85
86	METROPOLITAN SIOUX CITY	187.00	1,059.90	2.24	4.07	7.24	86
87	METROPOLITAN SIOUX FALLS	123.00	355.30	.40	2.08	1.35	87
88	NORTHEAST IOWA	508.30	2,083.30	17.13	42.37	13.85	88
89	NORTH CENTRAL IOWA						89
90	NORTHWEST IOWA						90
91	SOUTHEAST IOWA						91
92	SOUTH CENTRAL IOWA	586.80	2,983.30	20.90	67.90	13.45	92
93	SOUTHWEST IOWA						93
94	METROPOLITAN KANSAS CITY	2,431.22	8,285.10	10.96	121.71	46.27	94
95	NORTHEAST KANSAS	1,176.75	4,079.90	10.42	41.96	11.69	95
96	NORTH CENTRAL KANSAS	33.75	66.80			.21	96
97	NORTHWEST KANSAS	119.10	596.70		.06	1.35	97
98	SOUTHEAST KANSAS	268.50	1,105.40	.38	1.78	2.75	98
99	SOUTH CENTRAL KANSAS	1,227.00	6,898.10	.02	.60	13.99	99
100	SOUTHWEST KANSAS	229.50	877.50		.07	1.97	100
101	APPALACHIAN	37.50	136.20	2.13	2.82	.73	101
102	BLUEGRASS	625.00	2,165.50	25.19	39.31	9.25	102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON	3,758.80	19,258.40	111.17	383.11	85.73	103
104	NORTH CENTRAL KENTUCKY						104
105	SOUTH CENTRAL KENTUCKY	354.00	1,578.40	16.45	35.83	6.39	105
106	SOUTHERN LOUISIANA-SE TEXAS	7,530.95	37,442.10		.15	78.44	106
107	ANDROSCOGGIN VALLEY	147.00	705.90	.02	10.05	3.29	107
108	AROOSTOOK						108
109	DOWN EAST						109
110	METROPOLITAN PORTLAND	214.00	1,521.30	.06	16.77	5.57	110
111	NORTHWEST MAINE						111
112	CENTRAL MARYLAND						112
113	CUMBERLAND-KEYSER	1,329.98	6,753.00	63.12	136.51	26.01	113
114	EASTERN SHORE	92.50	391.10	8.15	9.54	2.22	114
115	METROPOLITAN BALTIMORE	1,728.60	10,948.30	17.78	154.19	51.62	115
116	SOUTHERN MARYLAND	626.00	1,364.30	.11	16.37	4.74	116
117	BERKSHIRE						117
118	CENTRAL MASSACHUSETTS	34.50	115.60	.51	.96	.52	118
119	METROPOLITAN BOSTON	2,384.45	11,581.00	2.65	132.61	44.19	119
120	METROPOLITAN PROVIDENCE	2,552.18	13,731.90	1.62	156.02	48.81	120
121	MERRIMACK VALLEY-SOUTHERN N.H.	637.99	3,796.60	1.21	60.85	31.28	121
122	CENTRAL MICHIGAN	2,385.00	13,664.70	93.86	303.90	52.80	122
123	METROPOLITAN DETROIT-PORT HURON	5,481.00	30,545.50	83.30	621.91	145.87	123
124	METROPOLITAN TOLEDO	1,459.00	7,218.10	21.40	136.93	26.43	124
125	SOUTH CENTRAL MICHIGAN	804.50	3,357.30	2.05	46.84	15.97	125
126	UPPER MICHIGAN	249.70	1,523.80	8.65	16.25	6.84	126
127	CENTRAL MINNESOTA						127
128	SOUTHEAST MINNESOTA-LA CROSSE	752.40	3,470.20	45.29	101.38	14.28	128
129	DULUTH-SUPERIOR	388.60	2,195.00	20.23	37.46	12.66	129
130	METROPOLITAN FARGO-MOORHEAD						130
131	MINNEAPOLIS-ST. PAUL	2,097.26	10,870.06	19.28	225.95	48.77	131
132	NORTHWEST MINNESOTA	136.90	842.40	15.50	10.34	6.30	132
133	SOUTHWEST MINNESOTA	66.00	166.00	2.67	3.19	.69	133
134	MISSISSIPPI DELTA	220.50	523.30	.01	.82	1.24	134
135	NORTHEAST MISSISSIPPI						135
136	NORTHERN PIEDMONT	290.00	1,985.20	60.48	16.05	7.37	136
137	NORTHERN MISSOURI	470.00	2,052.20	.84	123.73	38.92	137
138	SOUTHEAST MISSOURI						138
139	SOUTHWEST MISSOURI	1,032.90	4,843.00	19.27	263.53	28.01	139
140	BILLINGS	241.80	869.50	.59	5.82	4.17	140
141	GREAT FALLS						141
142	HELENA						142
143	MILES CITY	50.00	337.30	3.17	4.52	2.89	143
144	MISSOULA						144
145	LINCOLN-BEATRICE-FAIRBURY	258.65	1,059.90	1.83	13.70	6.28	145
146	NEBRASKA	42.20	210.20		.02	.54	146
147	NEVADA						147
148	NORTHWEST NEVADA	243.00	1,340.20	.01	.22	2.73	148
149	NEW HAMPSHIRE						149
150	NEW JERSEY	909.20	5,766.00	1.87	35.81	22.49	150
151	NE PENN.-UPPER DELAWARE VALLEY	1,320.30	6,884.10	40.30	150.86	30.10	151
152	ALBUQUERQUE-MID RIO GRANDE	335.00	1,456.10	.01	.23	3.10	152
153	EL PASO-LAS CRUCES-ALAMOGORDO	500.80	2,031.00		.01	4.00	153
154	NORTHEASTERN PLAINS						154
155	PECOS-PERMIAN BASIN	333.90	1,583.60			3.28	155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN						156
157	UPPER RIO GRANDE VALLEY						157
158	CENTRAL NEW YORK	876.00	3,674.30	6.00	41.49	12.50	158
159	CHAMPLAIN VALLEY	30.00	78.60	1.61	3.41	.41	159
160	GENESEE-FINGER LAKES	1,135.80	4,851.30	18.15	77.66	15.93	160
161	HUDSON VALLEY	931.91	5,179.70	20.04	84.90	18.40	161
162	NIAGARA FRONTIER	828.00	4,229.60	8.36	82.04	20.31	162
163	SOUTHERN TIER EAST	205.75	1,046.60	19.91	22.73	7.22	163
164	SOUTHERN TIER WEST	968.00	5,502.90	41.90	89.14	25.97	164
165	EASTERN MOUNTAIN	2,210.00	13,919.00	101.44	102.43	47.09	165
166	EASTERN PIEDMONT	1,488.83	8,771.90	78.55	97.17	30.14	166
167	METROPOLITAN CHARLOTTE	2,439.00	15,099.20	176.32	117.67	54.38	167
168	NORTHERN COASTAL PLAIN						168

TABLE 2-B

(Contd)-ESTIMATED ANNUAL EMISSIONS, BY AIR QUALITY CONTROL REGION, 1970

AQCR NO	AIR QUALITY CONTROL REGION	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS) PARTICULATES	SULFUR OXIDES	NITROGEN OXIDES	AQCR NO
169	SAN[illegible]	165.50	1,026.50	4.13	4.9[illegible]	3.25	[illegible]
170	SOUTHERN COASTAL	627.45	4,149.90	25.64	3[illegible].8	13.12	17[illegible]
171	WESTERN MOUNTAIN	206.64	1,335.60	1.99	12.4[illegible]	4.76	171
172	NORTH DAKOTA	768.50	3,225.90	29.16	[illegible].2	26.04	172
173	DAYTON	486.10	4,593.10	35.77	[illegible]	18.87	173
174	GREATER METROPOLITAN CLEV[illegible]	2,944.37	12,329.00	36.[illegible]	2[illegible]	56.87	174
175	MANSFIELD-MARI[illegible]						175
176	METROPOLITAN COL[illegible]	305.75	805.90	37.65	52.88	6.34	176
177	NORTHWEST OHIO	42.50	83.[illegible]	[illegible].94	[illegible].2[illegible]	.52	177
178	NORTHWEST PENN.-YOUNGSTO[illegible]	1,951.10	7,30[illegible].10	3[illegible].6	[illegible]	54.22	[illegible]
179	PARKERSBURG-MARIETTA	1,913.80	10,761.60	146.48	458.52	85.00	179
180	SAN[illegible]						180
181	STEUBENVILLE-WEIRTON-WHE[illegible]	1,917.45	26,89[illegible].80	97[illegible]	702.[illegible]	237.16	18[illegible]
182	WILMINGTON-CHILLICO[illegible]						[illegible]
183	ZANESVILLE-CAMBRIDGE	433.50	4,116.98	7[illegible]	18[illegible]	36.82	183
184	CENTRAL OKLAHOMA	[illegible]	8,687.50	[illegible]	[illegible]	17.55	[illegible]
185	NORTH CENTRAL OKLAHOMA	[illegible]3.00	80.[illegible]0	[illegible]	[illegible]	.24	185
186	NORTHEASTERN OKLAHOMA	1,3[illegible]6.65	7,569.90	[illegible].0	[illegible]	16.19	186
[illegible]	[illegible] THWESTERN OKLAHOMA	191.00	944.40			1.83	[illegible]
188	SOUTHEASTERN OKLAHOMA	156.50	560.00			1.43	188
189	SOUTHWESTERN OKLAHOMA	597.00	3,421.60		[illegible].0[illegible]	6.81	189
190	CENTRAL OREGON						190
191	EASTERN OREGON						[illegible]
192	NORTHWEST OREGON						192
193	[illegible]	173.44	44.10	.01	.[illegible]2	.46	193
194	SOUTHWEST OREGON						194
195	[illegible] PENNSYLVANIA	[illegible]34.[illegible]	3,1[illegible].[illegible]	[illegible]	[illegible]	[illegible]	195
196	SOUTH CENTRAL PENNSYLV[illegible]	[illegible]	7,98[illegible].[illegible]	18[illegible].9	161.[illegible]	30.74	[illegible]
197	SOUTHWEST PENNSYLVANI	[illegible]	34,061.[illegible]	193.	774.[illegible]	152.20	[illegible]
198	CAMDEN-SUMTER						[illegible]
199	CHARLESTON	[illegible]	9[illegible]	[illegible]	[illegible]	1[illegible]	
200	COLUMBIA	[illegible]	2,4[illegible]	[illegible]	[illegible]	[illegible]	
201	FLORENCE	[illegible].[illegible]	1,02[illegible]			[illegible]	
202	GREENVILLE-SPARTANBURG		2,4[illegible]			.8[illegible]	202
203	GREENWOOD					[illegible]1	203
204	GEORGETOWN		1,0[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
205	BLACK HILLS-RAPID CITY						[illegible]
206	SOUTH DAKOTA						[illegible]
207	EAST TENN.-TENN.-SOUTHWESTERN [illegible]	[illegible]	22,6[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
208	MIDDLE TENNESSEE		14,4[illegible]			[illegible]	[illegible]
209	WESTERN TENNESSEE						209
[illegible]	[illegible]	1,702.91	8,41[illegible].00			[illegible]	
211	AMARILLO-LUBBOCK	1,335.[illegible]	5,616.20			12.40	[illegible]
212	AUSTIN-WAC	[illegible]	7,6[illegible]0			[illegible]	212
213	BROWNSVILLE-LAREDO	[illegible]	4,0[illegible]0			[illegible]	213
214	[illegible]	[illegible].048.70	3,85[illegible].10			8.17	[illegible]
215	METROPOLITAN DALLAS-FORT WORTH	4,989.8[illegible]	16,965.22		.[illegible]	34.07	215
216	[illegible] METROPOLITAN HOUSTON-GALVESTON	[illegible].60[illegible].30	27,681.30			57.36	216
217	METROPOLITAN SAN ANTONIO	[illegible]	5,1[illegible]			[illegible]	[illegible]
218	MIDLAND-ODESSA-SAN ANGELO	[illegible]30.40	3,380.[illegible]			6.0[illegible]	218
219	[illegible]	188.60	889.10	3.[illegible]	4.2	3.53	219
[illegible]	WASATCH FRON	335.64	1,253.40	[illegible]	5.[illegible]	4.59	[illegible]
[illegible]	VERMONT						2[illegible]
222	CENTRAL VIRGINIA						[illegible]
223	HAMPTON ROADS	[illegible],127.4	5,79[illegible].[illegible]	5[illegible]	[illegible]2.[illegible]	20.8[illegible]	[illegible]
224	NORTHEASTERN VIRGINIA	284.27	1,414.10	16.2	13.0	5.33	[illegible]
225	STATE CAPITAL	[illegible],586.94	6,804.40	2.41	79.05	25.09	225
226	VALLEY OF VIRGINIA	435.00	2,271.00	17.50	[illegible]2.[illegible]	9.04	226
227	[illegible]THWESTERN WASHI[illegible]						[illegible]
228	OLYMPIA-NORTHWEST WASHINGTON						[illegible]
[illegible]	[illegible]	[illegible]75.[illegible]					[illegible]
[illegible]	[illegible] CENTRAL WASHINGTON	[illegible]	3,06[illegible].[illegible]				[illegible]
231	A[illegible]						[illegible]
232	CENTRAL WEST VIRGINIA						232
233	EASTERN PANHANDLE						233
234	KANAWHA VALLEY	899.50	3,99[illegible].[illegible]0	[illegible].[illegible]	[illegible].[illegible]	[illegible]4.52	234
235	NORTH CENTRAL WEST VIRGINIA	1,605.00	9,81[illegible].40	37.71	24[illegible].[illegible]	[illegible]6.11	235
236	SOUTHERN WEST VIR[illegible]						[illegible]
237	LAKE [illegible]	[illegible].[illegible]	2,[illegible]			[illegible]	[illegible]
[illegible]	[illegible]	135.00	[illegible]10.10	16.0[illegible]	[illegible]	[illegible].[illegible]	[illegible]
239	SOUTHEASTERN WISCONSIN	2,[illegible]05.[illegible]	12,67[illegible].[illegible]	[illegible].[illegible]	[illegible]	[illegible].[illegible]	239
240	SOUTHERN WISCO[illegible]	[illegible]	[illegible]8	[illegible]	[illegible]	[illegible]	240
[illegible]	[illegible]	455.79	2,663.10	29.29	[illegible]6.[illegible]	[illegible].00	[illegible]
242	METROPOLITAN CHEYENN[illegible]						242
243	WYOMIN[illegible]	[illegible]	2,3[illegible]	[illegible].[illegible]	[illegible].[illegible]	[illegible].[illegible]1	243
244	P[illegible]RT [illegible]	[illegible]	[illegible]6.3[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible].230.4[illegible]	[illegible].2[illegible]	[illegible]	[illegible]	[illegible]

TABLE 3-A

AND SULFUR COLLECTION AND DISPOSAL, BY REGION AND STATE 1970

LINE NO.	GEOGRAPHIC REGION AND STATE	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR SULFUR EQUIVALENT OF ACID		LINE NO.
		COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
	NEW ENGLAND							
1	CONNECTICUT	325.70	18.10					1
2	MAINE	.45						2
3	MASSACHUSETTS	136.87	599.42					3
4	NEW HAMPSHIRE	77.20	55.00					4
5	RHODE ISLAND	.66	.06					5
6	VERMONT	5.90						6
7	TOTALS	546.18	672.88					7
	MIDDLE ATLANTIC							
8	NEW JERSEY	428.37	68.50					8
9	NEW YORK	266.65	73.15					9
10	PENNSYLVANIA	5,552.20	566.10			.09	.09	10
11	TOTALS	6,247.22	707.75			.09	.09	11
	EAST NORTH CENTRAL							
12	ILLINOIS	923.51	12.84					12
13	INDIANA	1,443.76	163.50					13
14	MICHIGAN	775.53	265.40					14
15	OHIO	1,940.08	452.20					15
16	WISCONSIN	1,110.68	26.80					16
17	TOTALS	6,843.56	920.74					17
	WEST NORTH CENTRAL							
18	IOWA	329.20	13.00					18
19	KANSAS	42.38						19
20	MINNESOTA	544.20	3.46					20
21	MISSOURI	1,528.82	139.00					21
22	NEBRASKA	98.90						22
23	NORTH DAKOTA	184.20	7.00					23
24	SOUTH DAKOTA	2.70						24
25	TOTALS	2,730.40	162.46					25
	SOUTH ATLANTIC							
26	DELAWARE	233.70	15.20					26
27	DISTRICT OF COLUMBIA	71.40	5.60					27
28	FLORIDA	1,176	171.94					28
29	GEORGIA	5.10	.80					29
30	MARYLAND	1,400	41.10					30
31	NORTH CAROLINA	1,430	1.40					31
32	SOUTH CAROLINA	4	1					32
33	VIRGINIA		2.05					33
34	WEST VIRGINIA	1,941.40	154.00					34
35	TOTALS	5,825.22	425.50					35
	EAST SOUTH CENTRAL							
36	ALABAMA	1,400	41.40					36
37	KENTUCKY	1,484.74	142.10					37
38	MISSISSIPPI	1,400						38
39	TENNESSEE	1,880	102.00					39
40	TOTALS	6,165.24	285.40					40
	WEST SOUTH CENTRAL							
41	ARKANSAS							41
42	LOUISIANA							42
43	OKLAHOMA							43
44	TEXAS							44
45	TOTALS							45
	MOUNTAIN							
46	ARIZONA	.77						46
47	COLORADO	252.41	4.30					47
48	IDAHO							48
49	MONTANA	1.30	1.00					49
50	NEVADA	5.46	1.08					50
51	NEW MEXICO	1,160.59						51
52	UTAH	24.14	1.30					52
53	WYOMING	271.30	7.50					53
54	TOTALS	1,693.97	17.08					54
	PACIFIC							
55	CALIFORNIA	.31						55
56	OREGON	.80						56
57	WASHINGTON							57
58	TOTALS	1.11						58
	NON-CONTIGUOUS U.S.							
59	ALASKA							59
60	HAWAII	.20						60
61	PUERTO RICO							61
62	VIRGIN ISLANDS							62
63	TOTALS	.20						63
64	U.S. TOTALS	40,801.10	3,192.11			.09	.09	64

TABLE 3-B

ASH AND SULFUR COLLECTION AND DISPOSAL, BY AIR QUALITY CONTROL REGION 1970

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF ACID		AQCR NO
		COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
1	ALABAMA AND TOMBIGBEE RIVERS							1
2	COLUMBUS-PHENIX CITY							2
3	EAST ALABAMA	13.80						3
4	METROPOLITAN BIRMINGHAM	762.80	32.50					4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	465.98	.20					5
6	SOUTHEAST ALABAMA							6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	937.70	12.70					7
8	COOK INLET							8
9	NORTHERN ALASKA							9
10	SOUTH CENTRAL ALASKA							10
11	SOUTHEASTERN ALASKA							11
12	ARIZONA-NEW MEX. SOUTHERN BORDER							12
13	CLARK-MOHAVE	25.46	1.68					13
14	FOUR CORNERS	1,163.36						14
15	PHOENIX-TUCSON							15
16	CENTRAL ARKANSAS							16
17	METROPOLITAN FORT SMITH							17
18	METROPOLITAN MEMPHIS	140.80	59.60					18
19	MONROE-EL DORADO							19
20	NORTHEAST ARKANSAS							20
21	NORTHWEST ARKANSAS							21
22	SHREVEPORT-TEXARKANA-TYLER							22
23	GREAT BASIN VALLEY							23
24	METROPOLITAN LOS ANGELES	.31						24
25	NORTH CENTRAL COAST							25
26	NORTH COAST							26
27	NORTHEAST PLATEAU							27
28	SACRAMENTO VALLEY							28
29	SAN DIEGO							29
30	SAN FRANCISCO BAY AREA							30
31	SAN JOAQUIN VALLEY							31
32	SOUTH CENTRAL COAST							32
33	SOUTHEAST DESERT							33
34	COMANCHE							34
35	GRAND MESA	16.04						35
36	METROPOLITAN DENVER	155.37	4.30					36
37	PAWNEE							37
38	SAN ISABEL	25.60						38
39	SAN LUIS							39
40	YAMPA	55.40						40
41	EASTERN CONNECTICUT	78.90						41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	215.04	10.65					42
43	NEW JERSEY-NEW YORK-CONNECTICUT	334.51	39.56					43
44	NORTHWESTERN CONNECTICUT							44
45	METROPOLITAN PHILADELPHIA	452.65	43.60					45
46	SOUTHERN DELAWARE	148.70						46
47	NATIONAL CAPITAL	601.40	5.60					47
48	CENTRAL FLORIDA	.30						48
49	JACKSONVILLE-BRUNSWICK	40.16	.09					49
50	SOUTHEAST FLORIDA	1.20	.60					50
51	SOUTHWEST FLORIDA	.20						51
52	WEST CENTRAL FLORIDA	1,077.25	171.25					52
53	AUGUSTA-AIKEN	32.80	.54					53
54	CENTRAL GEORGIA	420.70	.80					54
55	CHATTANOOGA	87.23						55
56	METROPOLITAN ATLANTA	280.30						56
57	NORTHEAST GEORGIA							57
58	SAVANNAH-BEAUFORT	96.06	.07					58
59	SOUTHWEST GEORGIA	43.00						59
60	HAWAII (ENTIRE STATE)	.20						60
61	EASTERN IDAHO							61
62	EASTERN WASH.-NORTHERN IDAHO							62
63	IDAHO							63
64	METROPOLITAN BOISE							64
65	BURLINGTON-KEOKUK	238.34	12.84					65
66	EAST CENTRAL	57.30						66
67	METROPOLITAN CHICAGO	1,631.84	96.80					67
68	METROPOLITAN DUBUQUE	66.40						68
69	METROPOLITAN QUAD CITIES	62.60						69
70	METROPOLITAN ST. LOUIS	980.90	67.00					70
71	NORTH CENTRAL ILLINOIS	68.63						71
72	PADUCAH-CAIRO	2,078.09						72
73	ROCKFORD-JANESVILLE-BELOIT	61.78						73
74	SOUTHEAST ILLINOIS	49.40						74
75	WEST CENTRAL ILLINOIS	654.20						75
76	EAST CENTRAL INDIANA							76
77	EVANSVILLE-OWENSBORO-HENDERSON	532.02						77
78	LOUISVILLE	426.30	26.80					78
79	METROPOLITAN CINCINNATI	898.80	23.60					79
80	METROPOLITAN INDIANAPOLIS	148.76	14.80					80
81	NORTHEAST INDIANA							81
82	SOUTH BEND-ELKHART-BENTON HARBOR	110.10	16.10					82
83	SOUTHERN INDIANA	452.50	12.00					83
84	WABASH VALLEY	421.77	.20					84

TABLE 3-B

(Contd)-ASH AND SULFUR COLLECTION AND DISPOSAL, BY AIR QUALITY CONTROL REGION, 1970

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF ACID		AQCR NO
		COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
85	METROPOL. OMAHA-COUNCIL BLUFFS	96.19						85
86	METROPOLITAN SIOUX CITY	18.70						86
87	METROPOLITAN SIOUX FALLS	2.70						87
88	NORTHEAST IOWA	64.90						88
89	NORTH CENTRAL IOWA							89
90	NORTHWEST IOWA							90
91	SOUTHEAST IOWA							91
92	SOUTH CENTRAL IOWA	113.20	13.00					92
93	SOUTHWEST IOWA							93
94	METROPOLITAN KANSAS CITY	209.18						94
95	NORTHEAST KANSAS	72.30						95
96	NORTH CENTRAL KANSAS							96
97	NORTHWEST KANSAS							97
98	SOUTHEAST KANSAS	2.66						98
99	SOUTH CENTRAL KANSAS							99
100	SOUTHWEST KANSAS							100
101	APPALACHIAN	11.86						101
102	BLUEGRASS	129.30	31.00					102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON	1,201.30	231.90					103
104	NORTH CENTRAL KENTUCKY							104
105	SOUTH CENTRAL KENTUCKY	89.70	89.70					105
106	SOUTHERN LOUISIANA-SE TEXAS							106
107	ANDROSCOGGIN VALLEY	.15						107
108	AROOSTOOK							108
109	DOWN EAST							109
110	METROPOLITAN PORTLAND	.30						110
111	NORTHWEST MAINE							111
112	CENTRAL MARYLAND							112
113	CUMBERLAND-KEYSER	551.60	4.00					113
114	EASTERN SHORE	25.00						114
115	METROPOLITAN BALTIMORE	287.80	38.50					115
116	SOUTHERN MARYLAND	25.10						116
117	BERKSHIRE							117
118	CENTRAL MASSACHUSETTS	3.50						118
119	METROPOLITAN BOSTON	24.25	596.95					119
120	METROPOLITAN PROVIDENCE	6.14	.48					120
121	MERRIMACK VALLEY-SOUTHERN N.H.	77.20	55.30					121
122	CENTRAL MICHIGAN	741.00	50.70					122
123	METROPOLITAN DETROIT-PORT HURON	1,270.93	207.20					123
124	METROPOLITAN TOLEDO	375.90	.70					124
125	SOUTH CENTRAL MICHIGAN	120.10	6.80					125
126	UPPER MICHIGAN	50.80						126
127	CENTRAL MINNESOTA							127
128	SOUTHEAST MINNESOTA-LA CROSSE	222.80						128
129	DULUTH-SUPERIOR	114.40						129
130	METROPOLITAN FARGO-MOORHEAD							130
131	MINNEAPOLIS-ST. PAUL	382.00						131
132	NORTHWEST MINNESOTA	36.00	3.46					132
133	SOUTHWEST MINNESOTA	6.00						133
134	MISSISSIPPI DELTA							134
135	NORTHEAST MISSISSIPPI							135
136	NORTHERN PIEDMONT	57.20	2.90					136
137	NORTHERN MISSOURI	200.00						137
138	SOUTHEAST MISSOURI							138
139	SOUTHWEST MISSOURI	516.06	72.00					139
140	BILLINGS	34.50	2.00					140
141	GREAT FALLS							141
142	HELENA							142
143	MILES CITY	22.80	.30					143
144	MISSOULA							144
145	LINCOLN-BEATRICE-FAIRBURY	21.81						145
146	NEBRASKA							146
147	NEVADA							147
148	NORTHWEST NEVADA							148
149	NEW HAMPSHIRE							149
150	NEW JERSEY	90.81	41.09					150
151	NE PENN.-UPPER DELAWARE VALLEY	471.50	128.00			.09	.09	151
152	ALBUQUERQUE-MID RIO GRANDE							152
153	EL PASO-LAS CRUCES-ALAMOGORDO							153
154	NORTHEASTERN PLAINS							154
155	PECOS-PERMIAN BASIN							155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN							156
157	UPPER RIO GRANDE VALLEY							157
158	CENTRAL NEW YORK	74.85						158
159	CHAMPLAIN VALLEY	5.90						159
160	GENESEE-FINGER LAKES	192.90	7.50					160
161	HUDSON VALLEY	199.90						161
162	NIAGARA FRONTIER	184.30	1.10					162
163	SOUTHERN TIER EAST	128.40	49.40					163
164	SOUTHERN TIER WEST	449.50						164
165	EASTERN MOUNTAIN	642.40	3.50					165
166	EASTERN PIEDMONT	388.60						166
167	METROPOLITAN CHARLOTTE	687.60	5.00					167
168	NORTHERN COASTAL PLAIN							168

TABLE 3-8

[illegible] AND DISPOSAL OF AIR [illegible]

[illegible]	[illegible]	TONS OF [illegible]		[illegible]		[illegible]
[illegible]	[illegible]	SOLID (1,000 TONS)	COLLECTED (1,000 TONS)	[illegible] (1,000 TONS)	SOLID (1,000 TONS)	[illegible]
[illegible]						
[illegible]	[illegible]					[illegible]
[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	7.00				[illegible]
[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	5.70				[illegible]
[illegible]	[illegible]					[illegible]
[illegible]	[illegible]					[illegible]
[illegible]	[illegible]					[illegible]
[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	78.3				[illegible]
[illegible]	[illegible]	19.00				[illegible]
[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	183.70				[illegible]
[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	54.00				[illegible]
[illegible]	[illegible]					[illegible]
[illegible]	[illegible]					[illegible]
[illegible]	[illegible]					[illegible]
[illegible]	[illegible]					[illegible]
[illegible]	[illegible]

TABLE 4-A

AIR POLLUTION CONTROL EXPENSES, BY REGION AND STATE 19[illegible]

LINE NO	GEOGRAPHIC REGION AND STATE	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		LINE NO
			EXPENSES ($1,000)	REVENUES ($1,000)	EXPENSES ($1,000)	REVENUES ($1,000)	
	NEW ENGLAND						
1	CONNECTICUT	1,274.74	460.52	12[illegible]			1
2	MAINE						2
3	MASSACHUSETTS	11,449.07	760.43	40.47			3
4	NEW HAMPSHIRE	75.00	172.00	78.40			4
5	RHODE ISLAND	76.66	15.00	8.80			5
6	VERMONT	44.00	44.00				6
7	**TOTALS**	**13,019.47**	**1,451.95**	**139.97**			7
	MIDDLE ATLANTIC						
8	NEW JERSEY	585.98	685.88	57.82			8
9	NEW YORK	4,713.13	2,853.42	34.76			9
10	PENNSYLVANIA	6,091.34	4,523.66	205.38			10
11	**TOTALS**	**11,490.35**	**8,062.96**	**347.94**			11
	EAST NORTH CENTRAL						
12	ILLINOIS	6,704.17	6,629.16	18.74			12
13	INDIANA	2,924.40	2,890.60	34.20			13
14	MICHIGAN	5,715.30	2,387.70	212.40			14
15	OHIO	6,318.20	6,277.50	122.00			15
16	WISCONSIN	2,354.45	2,142.85	7.85			16
17	**TOTALS**	**24,017.02**	**20,327.81**	**395.19**			17
	WEST NORTH CENTRAL						
18	IOWA	432.18	432.18	.20			18
19	KANSAS	325.60	300.60		25.00		19
20	MINNESOTA	499.10	450.10	9.90			20
21	MISSOURI	2,084.46	1,714.86	185.00	160.20		21
22	NEBRASKA	139.28	139.28				22
23	NORTH DAKOTA	162.70	120.10	28.40			23
24	SOUTH DAKOTA	16.30	16.30				24
25	**TOTALS**	**3,659.62**	**3,173.42**	**223.50**	**185.20**		25
	SOUTH ATLANTIC						
26	DELAWARE	137.98	137.98	72.00			26
27	DISTRICT OF COLUMBIA	680.00	680.00	3.12			27
28	FLORIDA	966.75	934.90	468.90			28
29	GEORGIA	904.50	880.40	.10			29
30	MARYLAND	1,486.50	1,485.00	31.43			30
31	NORTH CAROLINA	1,155.47	1,151.47	15.01			31
32	SOUTH CAROLINA	265.15	265.45	1.60			32
33	VIRGINIA	1,731.78	1,695.08	3.45			33
34	WEST VIRGINIA	1,987.40	1,928.40	.40			34
35	**TOTALS**	**9,315.53**	**9,158.68**	**596.01**			35
	EAST SOUTH CENTRAL						
36	ALABAMA	1,578.00	1,578.00	.50			36
37	KENTUCKY	3,218.84	3,218.84	33.40			37
38	MISSISSIPPI	49.30	49.30				38
39	TENNESSEE	1,719.00	1,719.00				39
40	**TOTALS**	**6,565.14**	**6,565.14**	**33.90**			40
	WEST SOUTH CENTRAL						
41	ARKANSAS						41
42	LOUISIANA						42
43	OKLAHOMA						43
44	TEXAS						44
45	**TOTALS**						45
	MOUNTAIN						
46	ARIZONA	10.20	8.20				46
47	COLORADO	242.08	242.07	12.32			47
48	IDAHO						48
49	MONTANA	36.00	35.00	6.30			49
50	NEVADA			1.49			50
51	NEW MEXICO	1,941.00					51
52	UTAH	74.89	74.90	6.50			52
53	WYOMING	120.30	120.30	22.10			53
54	**TOTALS**	**2,424.47**	**480.47**	**48.71**			54
	PACIFIC						
55	CALIFORNIA	330.42	21.60				55
56	OREGON						56
57	WASHINGTON						57
58	**TOTALS**	**330.42**	**21.60**				58
	NON-CONTIGUOUS U.S.						
59	ALASKA						59
60	HAWAII	368.90	17.70				60
61	PUERTO RICO	62.80					61
62	VIRGIN ISLANDS						62
63	**TOTALS**	**431.70**	**17.70**				63
64	**U.S. TOTALS**	**71,253.72**	**49,259.73**	**1,785.22**	**185.20**		64

TABLE 4-B

AIR QUALITY CONTROL EXPENSES, BY AIR QUALITY CONTROL REGION, 1970

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		AQCR NO
			EXPENSES ($1,000)	REVENUES ($1,000)	EXPENSES ($1,000)	REVENUES ($1,000)	
1	ALABAMA AND TOMBIGBEE RIVERS						1
2	COLUMBUS-PHENIX CITY						2
3	EAST ALABAMA	47.00	47.00				3
4	METROPOLITAN BIRMINGHAM	392.00	392.00				4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	471.30	462.60	.50			5
6	SOUTHEAST ALABAMA						6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	987.00	987.00				7
8	COOK INLET						8
9	NORTHERN ALASKA						9
10	SOUTH CENTRAL ALASKA						10
11	SOUTHEASTERN ALASKA						11
12	ARIZONA-NEW MEX. SOUTHERN BORDER						12
13	CLARK-MOHAVE			1.49			13
14	FOUR CORNERS	1,951.20	8.20				14
15	PHOENIX-TUCSON						15
16	CENTRAL ARKANSAS						16
17	METROPOLITAN FORT SMITH						17
18	METROPOLITAN MEMPHIS	166.00	166.00				18
19	MONROE-EL DORADO						19
20	NORTHEAST ARKANSAS						20
21	NORTHWEST ARKANSAS						21
22	SHREVEPORT-TEXARKANA-TYLER						22
23	GREAT BASIN VALLEY						23
24	METROPOLITAN LOS ANGELES	330.42	21.60				24
25	NORTH CENTRAL COAST						25
26	NORTH COAST						26
27	NORTHEAST PLATEAU						27
28	SACRAMENTO VALLEY						28
29	SAN DIEGO						29
30	SAN FRANCISCO BAY AREA						30
31	SAN JOAQUIN VALLEY						31
32	SOUTH CENTRAL COAST						32
33	SOUTHEAST DESERT						33
34	COMANCHE						34
35	GRAND MESA	58.06	58.05				35
36	METROPOLITAN DENVER	121.42	121.42	12.32			36
37	RAWNEE						37
38	SAN ISABEL	25.30	25.30				38
39	SAN LUIS						39
40	YAMPA	37.30	37.30				40
41	EASTERN CONNECTICUT	118.50	95.30				41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	873.01	272.17	13.02			42
43	NEW JERSEY-NEW YORK-CONNECTICUT	2,198.91	1,146.11	103.94			43
44	NORTHWESTERN CONNECTICUT						44
45	METROPOLITAN PHILADELPHIA	521.97	520.07	87.50			45
46	SOUTHERN DELAWARE	32.31	32.31				46
47	NATIONAL CAPITAL	2,354.00	2,341.00	3.12			47
48	CENTRAL FLORIDA	67.50	67.50	4.20			48
49	JACKSONVILLE-BRUNSWICK	120.00	120.00	130.60			49
50	SOUTHEAST FLORIDA	200.30	200.30	65.90			50
51	SOUTHWEST FLORIDA	18.70	18.70	3.80			51
52	WEST CENTRAL FLORIDA	342.25	319.10	264.40			52
53	AUGUSTA-AIKEN	8.30	8.60	1.60			53
54	CENTRAL GEORGIA	400.00	400.00	.10			54
55	CHATTANOOGA	52.70	52.70				55
56	METROPOLITAN ATLANTA	299.30	299.30				56
57	NORTHEAST GEORGIA						57
58	SAVANNAH-BEAUFORT	25.50	1.40				58
59	SOUTHWEST GEORGIA	75.00	75.00				59
60	HAWAII (ENTIRE STATE)	368.90	17.70				60
61	EASTERN IDAHO						61
62	EASTERN WASH.-NORTHERN IDAHO						62
63	IDAHO						63
64	METROPOLITAN BOISE						64
65	BURLINGTON-KEOKUK	423.07	423.06	18.74			65
66	EAST CENTRAL	56.50	56.50				66
67	METROPOLITAN CHICAGO	5,210.00	5,194.90	16.60			67
68	METROPOLITAN DUBUQUE	79.55	79.55				68
69	METROPOLITAN QUAD CITIES	130.00	130.00				69
70	METROPOLITAN ST. LOUIS	1,055.70	748.30	100.00	160.20		70
71	NORTH CENTRAL ILLINOIS	95.90	95.90				71
72	PADUCAH-CAIRO	2,651.40	2,651.40				72
73	ROCKFORD-JANESVILLE-BELOIT	246.70	246.70				73
74	SOUTHEAST ILLINOIS	69.20	69.20				74
75	WEST CENTRAL ILLINOIS	764.20	764.20				75
76	EAST CENTRAL INDIANA						76
77	EVANSVILLE-OWENSBORO-HENDERSON	255.34	255.34				77
78	LOUISVILLE	600.50	600.50	33.40			78
79	METROPOLITAN CINCINNATI	271.80	271.80				79
80	METROPOLITAN INDIANAPOLIS	266.50	266.50	9.60			80
81	NORTHEAST INDIANA						81
82	SOUTH BEND-ELKHART-BENTON HARBOR	158.70	140.00	1.00			82
83	SOUTHERN INDIANA	614.00	614.00	7.00			83
84	WABASH VALLEY	360.30	360.30				84

TABLE 4-B

(Contd)- AIR QUALITY CONTROL EXPENSES, BY AIR QUALITY CONTROL REGION, 1970

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		AQCR NO
			EXPENSES ($1,000)	REVENUES ($1,000)	EXPENSES ($1,000)	REVENUES ($1,000)	
85	METROPOL. OMAHA-COUNCIL BLUFFS	145.02	145.02				85
86	METROPOLITAN SIOUX CITY	16.58	16.58				86
87	METROPOLITAN SIOUX FALLS	16.30	16.30				87
88	NORTHEAST IOWA	95.50	95.50				88
89	NORTH CENTRAL IOWA						89
90	NORTHWEST IOWA						90
91	SOUTHEAST IOWA						91
92	SOUTH CENTRAL IOWA	114.50	114.50	.20			92
93	SOUTHWEST IOWA						93
94	METROPOLITAN KANSAS CITY	975.90	945.90				94
95	NORTHEAST KANSAS	154.50	84.30		25.00		95
96	NORTH CENTRAL KANSAS						96
97	NORTHWEST KANSAS						97
98	SOUTHEAST KANSAS	6.60	6.60				98
99	SOUTH CENTRAL KANSAS						99
100	SOUTHWEST KANSAS						100
101	APPALACHIAN	4.60	4.60				101
102	BLUEGRASS	42.60	42.60				102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON	984.80	954.90	81.00			103
104	NORTH CENTRAL KENTUCKY						104
105	SOUTH CENTRAL KENTUCKY	370.70	370.70				105
106	SOUTHERN LOUISIANA-SE TEXAS						106
107	ANDROSCOGGIN VALLEY						107
108	AROOSTOOK						108
109	DOWN EAST						109
110	METROPOLITAN PORTLAND						110
111	NORTHWEST MAINE						111
112	CENTRAL MARYLAND						112
113	CUMBERLAND-KEYSER	1,064.20	1,062.70	4.30			113
114	EASTERN SHORE	73.00	73.00				114
115	METROPOLITAN BALTIMORE	504.60	504.60	27.13			115
116	SOUTHERN MARYLAND	71.00	71.00				116
117	BERKSHIRE						117
118	CENTRAL MASSACHUSETTS	34.30	23.30				118
119	METROPOLITAN BOSTON	10,678.50	168.08	33.05			119
120	METROPOLITAN PROVIDENCE	721.66	525.80	13.90			120
121	MERRIMACK VALLEY-SOUTHERN N.H.	175.00	172.00	78.40			121
122	CENTRAL MICHIGAN	721.70	709.40	17.40			122
123	METROPOLITAN DETROIT-PORT HURON	4,636.10	1,393.30	184.00			123
124	METROPOLITAN TOLEDO	456.00	456.00	1.30			124
125	SOUTH CENTRAL MICHIGAN	230.00	157.00	9.70			125
126	UPPER MICHIGAN	61.00	61.00				126
127	CENTRAL MINNESOTA						127
128	SOUTHEAST MINNESOTA-LA CROSSE	348.00	136.40				128
129	DULUTH-SUPERIOR	50.20	50.20				129
130	METROPOLITAN FARGO-MOORHEAD						130
131	MINNEAPOLIS-ST. PAUL	401.00	352.00				131
132	NORTHWEST MINNESOTA	25.40	25.40	9.90			132
133	SOUTHWEST MINNESOTA	9.50	9.50				133
134	MISSISSIPPI DELTA						134
135	NORTHEAST MISSISSIPPI						135
136	NORTHERN PIEDMONT	18.82	18.82	6.13			136
137	NORTHERN MISSOURI	150.00	150.00				137
138	SOUTHEAST MISSOURI						138
139	SOUTHWEST MISSOURI	504.76	442.76	85.00			139
140	BILLINGS	15.00	15.00	6.00			140
141	GREAT FALLS						141
142	HELENA						142
143	MILES CITY	21.00	20.00	.30			143
144	MISSOULA						144
145	LINCOLN-BEATRICE-FAIRBURY	23.86	23.86				145
146	NEBRASKA						146
147	NEVADA						147
148	NORTHWEST NEVADA						148
149	NEW HAMPSHIRE						149
150	NEW JERSEY	12.58	12.58	16.02			150
151	NE PENN.-UPPER DELAWARE VALLEY	201.00	190.00	17.00			151
152	ALBUQUERQUE-MID RIO GRANDE						152
153	EL PASO-LAS CRUCES-ALAMOGORDO						153
154	NORTHEASTERN PLAINS						154
155	PECOS-PERMIAN BASIN						155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN						156
157	UPPER RIO GRANDE VALLEY						157
158	CENTRAL NEW YORK	19.90	19.90				158
159	CHAMPLAIN VALLEY	44.00	44.00				159
160	GENESEE-FINGER LAKES	1,268.18	462.87	2.80			160
161	HUDSON VALLEY	108.00	96.00				161
162	NIAGARA FRONTIER	553.20	553.20	1.40			162
163	SOUTHERN TIER EAST	224.44	135.35	12.10			163
164	SOUTHERN TIER WEST	1,139.30	1,015.59				164
165	EASTERN MOUNTAIN	153.95	153.95	6.88			165
166	EASTERN PIEDMONT	455.00	455.00				166
167	METROPOLITAN CHARLOTTE	258.70	254.70	2.00			167
168	NORTHERN COASTAL PLAIN						168

TAB E 4-R

(G)-AIR QUALITY CONTROL EXPENSES, BY AIR QUALITY CONTROL REGION, 1970

AQCR NO	AIR QUALITY CONTROL REGION	OF AIR QUALITY CONTROL EXPENSES ($1,000)	S COLLECTION AND DISPOSAL EXPENSES ($1,000)	S COLLECTION AND DISPOSAL REVENUES ($1,000)	R PRODUCTS COLLECTION AND DISPOSAL EXPENSES ($1,000)	R PRODUCTS COLLECTION AND DISPOSAL REVENUES ($1,000)	AQCR NO
169	SANDHILLS	64.00	64.00				169
170	SOUTHERN COASTAL PLAIN	140.00	140.00				170
171	WESTERN MOUNTAIN	65.00	65.00				171
172	NORTH DAKOTA	162.70	120.10	28.40			172
173	DAYTON	491.00	493.00				173
174	GREATER METROPOLITAN CLEVELAND	2,444.10	2,444.10	3.80			174
175	MANSFIELD-MARION						175
176	METROPOLITAN COLUMBUS	96.00	96.00				176
177	NORTHWEST OHIO						177
178	NORTHWEST PENN.-YOUNGSTOWN	1,118.20	1,035.60	25.75			178
179	PARKERSBURG-MARIETTA	481.70	481.70				179
180	SANDUSKY						180
181	STEUBENVILLE-WEIRTON-WHEELING	1,260.20	1,257.70	1.80			181
182	WILMINGTON-CHILLICOTHE-LOGAN						182
183	ZANESVILLE-CAMBRIDGE	233.50	233.50				183
184	CENTRAL OKLAHOMA						184
185	NORTH CENTRAL OKLAHOMA						185
186	NORTHEASTERN OKLAHOMA						186
187	NORTHWESTERN OKLAHOMA						187
188	SOUTHEASTERN OKLAHOMA						188
189	SOUTHWESTERN OKLAHOMA						189
190	CENTRAL OREGON						190
191	EASTERN OREGON						191
192	NORTHWEST OREGON						192
193	PORTLAND						193
194	SOUTHWEST OREGON						194
195	CENTRAL PENNSYLVANIA	247.20	244.70				195
196	SOUTH CENTRAL PENNSYLVANIA	344.00	322.00	6.30			196
197	SOUTHWEST PENNSYLVANIA	4,586.14	3,058.26	174.13			197
198	CAMDEN-SUMTER						198
199	CHARLESTON	10.00	10.00				199
200	COLUMBIA						200
201	FLORENCE	120.00	120.00				201
202	GREENVILLE-SPARTANBURG	99.10	99.10				202
203	GREENWOOD	.55	.55				203
204	GEORGETOWN	27.20	27.20				204
205	BLACK HILLS-RAPID CITY						205
206	SOUTH DAKOTA						206
207	EASTERN TENN.-SOUTHWESTERN VA.	1,035.90	1,035.90				207
208	MIDDLE TENNESSEE	588.00	588.00				208
209	WESTERN TENNESSEE						209
210	ABILENE-WICHITA FALLS						210
211	AMARILLO-LUBBOCK						211
212	AUSTIN-WACO						212
213	BROWNSVILLE-LAREDO						213
214	CORPUS CHRISTI-VICTORIA						214
215	METROPOLITAN DALLAS-FORT WORTH						215
216	METROPOLITAN HOUSTON-GALVESTON						216
217	METROPOLITAN SAN ANTONIO						217
218	MIDLAND-ODESSA-SAN ANGELO						218
219	UTAH	48.80	48.80	6.50			219
220	WASATCH FRONT	26.09	26.10				220
221	VERMONT						221
222	CENTRAL VIRGINIA						222
223	HAMPTON ROADS	427.20	408.50				223
224	NORTHEASTERN VIRGINIA	44.00	39.00				224
225	STATE CAPITAL	146.00	146.00				225
226	VALLEY OF VIRGINIA	85.68	85.68	3.45			226
227	NORTHERN WASHINGTON						227
228	OLYMPIA-NORTHWEST WASHINGTON						228
229	PUGET SOUND						229
230	SOUTH CENTRAL WASHINGTON						230
231	ALLEGHENY						231
232	CENTRAL WEST VIRGINIA						232
233	EASTERN PANHANDLE						233
234	KANAWHA VALLEY	91.40	91.40				234
235	NORTH CENTRAL WEST VIRGINIA	416.10	357.10	.40			235
236	SOUTHERN WEST VIRGINIA						236
237	LAKE MICHIGAN	166.90	166.90	3.75			237
238	NORTH CENTRAL WISCONSIN	5.00	5.00				238
239	SOUTHEASTERN WISCONSIN	1,691.30	1,691.30	4.10			239
240	SOUTHERN WISCONSIN	65.00	65.00				240
241	CASPER	58.00	58.00	22.10			241
242	METROPOLITAN CHEYENNE						242
243	WYOMING	62.30	62.30				243
244	PUERTO RICO	62.80					244
245	AMERICAN SAMOA						245
246	GUAM						246
247	U. S. VIRGIN ISLANDS						247
	U.S. TOTALS	71,253.72	49,259.73	1,785.22	185.20		

TABLE

INSTALLED

		[illegible] INCINERATORS	[illegible] CIRCULATING PRECIPITATORS	COMBINED PRECIPITATORS	[illegible] SYSTEMS	[illegible]	
	NEW ENGLAND						
1	[illegible]	[illegible]	5,045.79	2 [illegible]			
2	MAINE	263.00		1 [illegible]			
3	[illegible]	335.40	6,768.60	344.			
4	NEW HAMPSHIRE		70.00	[illegible]			
5	RHODE ISLAND	31.00	[illegible]				
6	VERMONT	34.40					
7	TOTALS	1,211.80	13,[illegible]7.19	[illegible]			
	MIDDLE ATLANTIC						
8	NEW JERSEY	485.80	5,881.80	7,3[illegible]7			
9	NEW YORK	[illegible]655. 1	[illegible]	29,83[illegible]			
10	PENNSYLVANIA	1 [illegible]. 5	7,4[illegible]6.15	20,44[illegible]			
11	TOTALS	6,451.36	42,089.63	57,726.[illegible]			[illegible]
	EAST NORTH CENTRAL						
12	ILLINOIS	[illegible]2 1.40	[illegible]				[illegible]42
13	INDIANA	1,326.00	21,[illegible]2	4,513.			[illegible]
14	MICHIGAN	5,912.90	24,[illegible]3.80	15,[illegible]			[illegible]30
15	OHIO	2,874.00	19,659.80	12,822.			21,[illegible]5.30
16	WISCONSIN	667.30	12,721.00				5,532.40
17	TOTALS	11,001.60	116,430.68	32,720.00			[illegible] 17
	WEST NORTH CENTRAL						
18	IOWA	1,679.70	1,820.00				2,105.30
19	KANSAS	535.91	492.00				1,594.29
20	MINNESOTA	674.20	4,640.00				4,283.98
21	MISSOURI	677.10	10,921.96	961.20	1,304.00		9,340.14
22	NEBRASKA	317.50	647.00	776.00			990.92
23	NORTH DAKOTA	576.10					632.90
24	SOUTH DAKOTA	36.00					284.00
25	TOTALS	4,496.51	18,520.96	1,737.20	1,304.00		19,231.53
	SOUTH ATLANTIC						
26	DELAWARE	253.00	200.00	996.00			1,232.00
27	DISTRICT OF COLUMBIA	322.00	116.00	2,261.00			520.00
28	FLORIDA	1,962.40	4,987.00				9,357.10
29	GEORGIA	161.40	1,535.00				2,560.20
30	MARYLAND	1,554.00	10,718.00	3,445.00			9,183.00
31	NORTH CAROLINA	1,739.40	7,582.00	508.00			3,238.72
32	SOUTH CAROLINA	805.16	5,622.46				2,183.75
33	VIRGINIA	1,444.00	7,130.00	3,676.00			2,557.00
34	WEST VIRGINIA	1,009.00	12,238.00	673.00			4,289.00
35	TOTALS	9,250.36	50,128.46	11,559.00			35,120.77
	EAST SOUTH CENTRAL						
36	ALABAMA	3,195.81	4,963.60				3,888.00
37	KENTUCKY	1,144.67	15,694.60	8,299.60			8,360.96
38	MISSISSIPPI		393.50				542.89
39	TENNESSEE	1,242.40	3,367.00	7,933.00			3,799.00
40	TOTALS	5,582.88	24,418.70	16,232.60			16,590.85
	WEST SOUTH CENTRAL						
41	ARKANSAS						850.40
42	LOUISIANA						1,561.20
43	OKLAHOMA						933.80
44	TEXAS						4,444.08
45	TOTALS						7,789.48
	MOUNTAIN						
46	ARIZONA	72.10					902.03
47	COLORADO	534.66	579.00	5,900.06			2,403.66
48	IDAHO						
49	MONTANA	49.00	969.00				
50	NEVADA	93.00					351.20
51	NEW MEXICO	359.40	8,344.00				469.00
52	UTAH	173.88		680.75			575.55
53	WYOMING	660.33					484.81
54	TOTALS	1,942.37	9,892.00	6,580.81			834.91
	PACIFIC						6,021.16
55	CALIFORNIA	2,631.00					30,611.18
56	OREGON						50.30
57	WASHINGTON						430.00
58	TOTALS	2,631.00					31,091.48
	NON-CONTIGUOUS U.S.						
59	ALASKA						
60	HAWAII	54.25					862.67
61	PUERTO RICO						
62	VIRGIN ISLANDS						
63	TOTALS	54.25					862.67
64	U.S. TOTALS	42,621.43	275,317.62	129,803.01	1,304.00	229,970.74	64

TABLE 5-B

INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY AIR QUALITY REGION, 1970

AQCR NO	AIR QUALITY CONTROL REGION	INSTALLED COSTS ($1,000)					AQCR NO
		MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	
1	ALABAMA AND TOMBIGBEE RIVERS						1
2	COLUMBUS-PHENIX CITY						2
3	EAST ALABAMA		395.60			11.00	3
4	METROPOLITAN BIRMINGHAM	1,072.00	1,071.00			1,119.00	4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	1,357.01	3,672.50			2,346.39	5
6	SOUTHEAST ALABAMA						6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	872.80	2,481.00			1,827.00	7
8	COOK INLET						8
9	NORTHERN ALASKA						9
10	SOUTH CENTRAL ALASKA						10
11	SOUTHEASTERN ALASKA						11
12	ARIZONA-NEW MEX. SOUTHERN BORDER					44.80	12
13	CLARK-MOHAVE	93.00				348.00	13
14	FOUR CORNERS	431.50	8,344.00			513.40	14
15	PHOENIX-TUCSON					728.03	15
16	CENTRAL ARKANSAS					245.00	16
17	METROPOLITAN FORT SMITH						17
18	METROPOLITAN MEMPHIS						18
19	MONROE-EL DORADO					121.00	19
20	NORTHEAST ARKANSAS					517.20	20
21	NORTHWEST ARKANSAS					29.00	21
22	SHREVEPORT-TEXARKANA-TYLER					794.96	22
23	GREAT BASIN VALLEY						23
24	METROPOLITAN LOS ANGELES	2,631.00				4,441.78	24
25	NORTH CENTRAL COAST					8,060.00	25
26	NORTH COAST					498.00	26
27	NORTHEAST PLATEAU						27
28	SACRAMENTO VALLEY						28
29	SAN DIEGO					176.00	29
30	SAN FRANCISCO BAY AREA					12,578.00	30
31	SAN JOAQUIN VALLEY					684.00	31
32	SOUTH CENTRAL COAST					4,108.00	32
33	SOUTHEAST DESERT					65.40	33
34	COMANCHE						34
35	GRAND MESA	288.30		275.83		431.20	35
36	METROPOLITAN DENVER	161.16		5,357.91		1,405.36	36
37	PAWNEE						37
38	SAN ISABEL	85.20		266.30		352.10	38
39	SAN LUIS						39
40	YAMPA		579.00			215.00	40
41	EASTERN CONNECTICUT		539.00			361.00	41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	424.00	3,587.94	1,182.00		1,514.13	42
43	NEW JERSEY-NEW YORK-CONNECTICUT	3,646.12	9,267.07	32,516.60		19,306.61	43
44	NORTHWESTERN CONNECTICUT						44
45	METROPOLITAN PHILADELPHIA	1,499.50	1,514.20	9,260.20		3,227.60	45
46	SOUTHERN DELAWARE			996.00		686.00	46
47	NATIONAL CAPITAL	322.00	4,171.00	3,930.00		2,156.00	47
48	CENTRAL FLORIDA	366.10				2,430.90	48
49	JACKSONVILLE-BRUNSWICK					645.20	49
50	SOUTHEAST FLORIDA	1,490.30				2,071.20	50
51	SOUTHWEST FLORIDA					236.30	51
52	WEST CENTRAL FLORIDA		2,724.00			3,041.00	52
53	AUGUSTA-AIKEN	98.05	1,196.75			214.18	53
54	CENTRAL GEORGIA					1,083.00	54
55	CHATTANOOGA		1,535.00			1,280.00	55
56	METROPOLITAN ATLANTA						56
57	NORTHEAST GEORGIA						57
58	SAVANNAH-BEAUFORT	453.59	719.41			460.59	58
59	SOUTHWEST GEORGIA						59
60	HAWAII (ENTIRE STATE)	54.25				862.67	60
61	EASTERN IDAHO						61
62	EASTERN WASH.-NORTHERN IDAHO						62
63	IDAHO						63
64	METROPOLITAN BOISE						64
65	BURLINGTON-KEOKUK	38.00	1,557.88			2,624.12	65
66	EAST CENTRAL	224.60				282.90	66
67	METROPOLITAN CHICAGO	9.00	29,164.00			7,489.00	67
68	METROPOLITAN DUBUQUE	241.50				256.40	68
69	METROPOLITAN QUAD CITIES	168.90	365.00			515.00	69
70	METROPOLITAN ST. LOUIS	447.00	11,644.00		1,304.00	5,096.00	70
71	NORTH CENTRAL ILLINOIS	219.00	428.00			405.00	71
72	PADUCAH-CAIRO	1,526.45	6,698.00	8,050.60		3,689.11	72
73	ROCKFORD-JANESVILLE-BELOIT	232.00	179.00			566.00	73
74	SOUTHEAST ILLINOIS		2,239.00			178.10	74
75	WEST CENTRAL ILLINOIS	199.80	5,029.00			1,748.00	75
76	EAST CENTRAL INDIANA						76
77	EVANSVILLE-OWENSBORO-HENDERSON	308.00	2,623.60	967.10		2,279.10	77
78	LOUISVILLE		10,087.00			2,160.00	78
79	METROPOLITAN CINCINNATI	140.00	3,424.00	1,162.00		4,065.00	79
80	METROPOLITAN INDIANAPOLIS	613.60	662.20	415.50		786.46	80
81	NORTHEAST INDIANA						81
82	SOUTH BEND-ELKHART-BENTON HARBOR	153.40	726.00			236.00	82
83	SOUTHERN INDIANA			3,390.00		2,886.00	83
84	WABASH VALLEY	276.00	5,522.00			1,038.00	84

TABLE 5-B

(Contd)-INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY AIR QUALITY REGION, 1970

AQCR NO	AIR QUALITY CONTROL REGION	INSTALLED COSTS ($1,000)					AQCR NO
		MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	
85	METROPOL. OMAHA-COUNCIL BLUFFS	335.50	647.00	776.00		1,097.80	85
86	METROPOLITAN SIOUX CITY					88.50	86
87	METROPOLITAN SIOUX FALLS	36.00				284.00	87
88	NORTHEAST IOWA	456.80	1,088.00			439.10	88
89	NORTH CENTRAL IOWA						89
90	NORTHWEST IOWA						90
91	SOUTHEAST IOWA						91
92	SOUTH CENTRAL IOWA	671.00				533.00	92
93	SOUTHWEST IOWA						93
94	METROPOLITAN KANSAS CITY	897.10	1,786.00	961.20		3,437.81	94
95	NORTHEAST KANSAS	170.00	2,169.00			2,204.00	95
96	NORTH CENTRAL KANSAS					31.30	96
97	NORTHWEST KANSAS					69.00	97
98	SOUTHEAST KANSAS	145.91				250.97	98
99	SOUTH CENTRAL KANSAS					347.40	99
100	SOUTHWEST KANSAS					75.00	100
101	APPALACHIAN	19.96				11.85	101
102	BLUEGRASS	323.26				470.90	102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON		4,521.00	2,675.00		7,727.00	103
104	NORTH CENTRAL KENTUCKY						104
105	SOUTH CENTRAL KENTUCKY	170.00				107.00	105
106	SOUTHERN LOUISIANA-SE TEXAS					1,958.50	106
107	ANDROSCOGGIN VALLEY	79.90		187.00		237.90	107
108	AROOSTOOK						108
109	DOWN EAST						109
110	METROPOLITAN PORTLAND	180.80				390.50	110
111	NORTHWEST MAINE						111
112	CENTRAL MARYLAND						112
113	CUMBERLAND-KEYSER	180.00	5,418.00	410.00		764.00	113
114	EASTERN SHORE	87.00				62.00	114
115	METROPOLITAN BALTIMORE	1,287.00	6,104.00	3,035.00		6,443.00	115
116	SOUTHERN MARYLAND		1,724.00			1,473.00	116
117	BERKSHIRE						117
118	CENTRAL MASSACHUSETTS	40.00				34.00	118
119	METROPOLITAN BOSTON		3,786.20			1,970.96	119
120	METROPOLITAN PROVIDENCE	432.40	2,605.20			1,901.30	120
121	MERRIMACK VALLEY-SOUTHERN N.H.		766.00	332.00		509.00	121
122	CENTRAL MICHIGAN	454.10	5,624.60			1,632.00	122
123	METROPOLITAN DETROIT-PORT HURON	3,003.70	16,955.00	15,374.20		6,124.50	123
124	METROPOLITAN TOLEDO	302.50	1,523.80	1,617.20		1,352.30	124
125	SOUTH CENTRAL MICHIGAN	119.60	1,584.20			1,132.80	125
126	UPPER MICHIGAN	119.00				175.00	126
127	CENTRAL MINNESOTA						127
128	SOUTHEAST MINNESOTA-LA CROSSE	247.90	811.00			1,094.28	128
129	DULUTH-SUPERIOR	246.00				271.00	129
130	METROPOLITAN FARGO-MOORHEAD						130
131	MINNEAPOLIS-ST. PAUL	158.40	4,640.00			3,416.00	131
132	NORTHWEST MINNESOTA	142.70				133.70	132
133	SOUTHWEST MINNESOTA	52.00				169.00	133
134	MISSISSIPPI DELTA					60.00	134
135	NORTHEAST MISSISSIPPI						135
136	NORTHERN PIEDMONT	93.00				57.98	136
137	NORTHERN MISSOURI		702.00			749.00	137
138	SOUTHEAST MISSOURI						138
139	SOUTHWEST MISSOURI		2,046.96			1,280.95	139
140	BILLINGS		969.00			308.00	140
141	GREAT FALLS						141
142	HELENA						142
143	MILES CITY	49.00				43.20	143
144	MISSOULA						144
145	LINCOLN-BEATRICE-FAIRBURY	169.00				173.20	145
146	NEBRASKA					25.92	146
147	NEVADA						147
148	NORTHWEST NEVADA					121.00	148
149	NEW HAMPSHIRE						149
150	NEW JERSEY		901.30			347.60	150
151	NE PENN.-UPPER DELAWARE VALLEY		3,432.00	2,288.00		1,090.80	151
152	ALBUQUERQUE-MID RIO GRANDE					17.80	152
153	EL PASO-LAS CRUCES-ALAMOGORDO					153.00	153
154	NORTHEASTERN PLAINS						154
155	PECOS-PERMIAN BASIN					55.55	155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN						156
157	UPPER RIO GRANDE VALLEY						157
158	CENTRAL NEW YORK	341.30				222.90	158
159	CHAMPLAIN VALLEY	54.00				24.00	159
160	GENESEE-FINGER LAKES	98.99	2,086.90			753.21	160
161	HUDSON VALLEY	317.10	2,973.00			824.00	161
162	NIAGARA FRONTIER			1,417.80		1,730.10	162
163	SOUTHERN TIER EAST	106.90	330.54			148.17	163
164	SOUTHERN TIER WEST	257.30	777.31	832.40		2,178.67	164
165	EASTERN MOUNTAIN	444.00	2,290.00			1,133.94	165
166	EASTERN PIEDMONT	571.50				709.50	166
167	METROPOLITAN CHARLOTTE	178.00	5,292.00			756.60	167
168	NORTHERN COASTAL PLAIN						168

TABLE 5-B

(Contd)- INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY AIR QUALITY REGION, 1970

AQCR NO	AIR QUALITY CONTROL REGION	INSTALLED COSTS ($1,000)					AQCR NO
		MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	
169	SANDHILLS	90.60				78.40	169
170	SOUTHERN COASTAL PLAIN	362.30				292.10	170
171	WESTERN MOUNTAIN			508.00		210.20	171
172	NORTH DAKOTA	576.10				632.90	172
173	DAYTON	444.00		1,334.00		451.00	173
174	GREATER METROPOLITAN CLEVELAND	148.00	5,037.00	3,425.00		3,553.00	174
175	MANSFIELD-MARION						175
176	METROPOLITAN COLUMBUS	180.00				184.00	176
177	NORTHWEST OHIO						177
178	NORTHWEST PENN.-YOUNGSTOWN	172.00	2,804.96	2,156.00		1,878.18	178
179	PARKERSBURG-MARIETTA	759.00	407.00	1,885.00		1,697.00	179
180	SANDUSKY						180
181	STEUBENVILLE-WEIRTON-WHEELING	738.00	8,594.00	724.00		6,668.00	181
182	WILMINGTON-CHILLICOTHE-LOGAN						182
183	ZANESVILLE-CAMBRIDGE	287.00				788.00	183
184	CENTRAL OKLAHOMA					627.70	184
185	NORTH CENTRAL OKLAHOMA					24.30	185
186	NORTHEASTERN OKLAHOMA					265.10	186
187	NORTHWESTERN OKLAHOMA						187
188	SOUTHEASTERN OKLAHOMA					16.70	188
189	SOUTHWESTERN OKLAHOMA						189
190	CENTRAL OREGON						190
191	EASTERN OREGON						191
192	NORTHWEST OREGON						192
193	PORTLAND					300.30	193
194	SOUTHWEST OREGON						194
195	CENTRAL PENNSYLVANIA	34.65		4,016.30		592.79	195
196	SOUTH CENTRAL PENNSYLVANIA		3,914.00	1,035.00		1,457.00	196
197	SOUTHWEST PENNSYLVANIA	402.50	17,499.20	5,750.10		12,665.50	197
198	CAMDEN-SUMTER						198
199	CHARLESTON	52.00	354.00			685.74	199
200	COLUMBIA	176.32	1,213.30			520.02	200
201	FLORENCE	89.60				105.60	201
202	GREENVILLE-SPARTANBURG	97.00	1,716.00			56.82	202
203	GREENWOOD						203
204	GEORGETOWN		423.00			338.00	204
205	BLACK HILLS-RAPID CITY						205
206	SOUTH DAKOTA						206
207	EASTERN TENN.-SOUTHWESTERN VA.	465.40	3,367.00	2,409.00		3,185.00	207
208	MIDDLE TENNESSEE	960.00		5,524.00		1,075.00	208
209	WESTERN TENNESSEE						209
210	ABILENE-WICHITA FALLS					134.06	210
211	AMARILLO-LUBBOCK					186.06	211
212	AUSTIN-WACO					189.12	212
213	BROWNSVILLE-LAREDO					345.90	213
214	CORPUS CHRISTI-VICTORIA					671.60	214
215	METROPOLITAN DALLAS-FORT WORTH					1,219.18	215
216	METROPOLITAN HOUSTON-GALVESTON						216
217	METROPOLITAN SAN ANTONIO					222.60	217
218	MIDLAND-ODESSA-SAN ANGELO					186.50	218
219	UTAH	173.88				119.89	219
220	WASATCH FRONT			680.75		364.92	220
221	VERMONT						221
222	CENTRAL VIRGINIA						222
223	HAMPTON ROADS	682.00	877.00	1,579.00		574.00	223
224	NORTHEASTERN VIRGINIA	356.00				166.00	224
225	STATE CAPITAL	16.00	4,414.00	428.00		829.00	225
226	VALLEY OF VIRGINIA	207.00				27.00	226
227	NORTHERN WASHINGTON						227
228	OLYMPIA-NORTHWEST WASHINGTON						228
229	PUGET SOUND					180.00	229
230	SOUTH CENTRAL WASHINGTON						230
231	ALLEGHENY						231
232	CENTRAL WEST VIRGINIA						232
233	EASTERN PANHANDLE						233
234	KANAWHA VALLEY		2,966.00			519.00	234
235	NORTH CENTRAL WEST VIRGINIA	889.00	4,121.00	673.00		1,759.00	235
236	SOUTHERN WEST VIRGINIA						236
237	LAKE MICHIGAN		2,657.00			795.00	237
238	NORTH CENTRAL WISCONSIN					64.00	238
239	SOUTHEASTERN WISCONSIN		9,253.00			3,037.00	239
240	SOUTHERN WISCONSIN	381.00				277.00	240
241	CASPER	344.00				391.00	241
242	METROPOLITAN CHEYENNE						242
243	WYOMING	316.33				443.91	243
244	PUERTO RICO						244
245	AMERICAN SAMOA						245
246	GUAM						246
247	U. S. VIRGIN ISLANDS						247
	U.S. TOTALS	**42,621.43**	**275,317.62**	**129,803.01**	**1,304.00**	**229,970.74**	

TABLE 6-A

NUMBER OF PLANTS, CAPACITIES, AND TYPES OF COOLING BY REGION AND STATE, 1970

LINE NO	GEOGRAPHIC REGION AND STATE	ONCE THROUGH FRESH		ONCE THROUGH SALINE		COOLING PONDS		COOLING TOWERS		COMBINED SYSTEMS		LINE NO
		NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	
	NEW ENGLAND											
1	CONNECTICUT	4	1,900.55	6	1,310.70					1	660.50	1
2	MAINE			2	361.00							2
3	MASSACHUSETTS	6	686.84	11	3,944.55					3	683.25	3
4	NEW HAMPSHIRE	1	459.24	1	178.75							4
5	RHODE ISLAND			3	305.88							5
6	VERMONT	1	30.00									6
7	**TOTALS**	**12**	**3,076.63**	**23**	**6,100.88**					**4**	**1,343.75**	**7**
	MIDDLE ATLANTIC											
8	NEW JERSEY	3	1,270.10	14	5,836.50							8
9	NEW YORK	14	4,945.46	18	10,869.86							9
10	PENNSYLVANIA	32	11,358.19	1	476.50			3	3,485.00	3	707.00	10
11	**TOTALS**	**49**	**17,573.75**	**33**	**17,182.86**			**3**	**3,485.00**	**3**	**707.00**	**11**
	EAST NORTH CENTRAL											
12	ILLINOIS	30	13,142.31			3	2,330.96	2	212.30			12
13	INDIANA	18	9,358.12							3	748.73	13
14	MICHIGAN	23	9,017.20							1	386.00	14
15	OHIO	29	14,395.62			1	42.50	2	270.00	1	1,466.80	15
16	WISCONSIN	18	5,495.60									16
17	**TOTALS**	**118**	**51,408.85**			**4**	**2,373.46**	**4**	**482.30**	**5**	**2,601.53**	**17**
	WEST NORTH CENTRAL											
18	IOWA	11	1,518.66			1	92.20	3	261.80	1	325.00	18
19	KANSAS	5	536.13					7	1,606.25	3	639.10	19
20	MINNESOTA	10	1,622.40							3	1,221.96	20
21	MISSOURI	11	4,522.34			2	1,033.10	3	377.30	2	407.50	21
22	NEBRASKA	4	973.90					2	258.65			22
23	NORTH DAKOTA	3	512.00			1	256.50					23
24	SOUTH DAKOTA							2	123.00			24
25	**TOTALS**	**44**	**9,685.43**			**4**	**1,381.80**	**17**	**2,627.00**	**9**	**2,593.56**	**25**
	SOUTH ATLANTIC											
26	DELAWARE	1	389.80	2	470.00							26
27	DISTRICT OF COLUMBIA	1	270.00							1	554.00	27
28	FLORIDA	13	2,147.65	18	9,225.40			1	65.00	1	651.00	28
29	GEORGIA	6	3,425.00	3	469.50					1	875.00	29
30	MARYLAND	3	776.50	8	3,175.10							30
31	NORTH CAROLINA	7	5,164.00			2	1,274.49			3	988.93	31
32	SOUTH CAROLINA	4	1,043.10	1	97.75	1	206.60	2	421.90	4	1,027.80	32
33	VIRGINIA	7	3,312.81	3	1,124.64			1	669.00			33
34	WEST VIRGINIA	8	3,402.50					1	1,152.00	1	1,140.48	34
35	**TOTALS**	**50**	**19,931.36**	**35**	**14,562.39**	**3**	**1,481.09**	**5**	**2,307.90**	**11**	**5,237.21**	**35**
	EAST SOUTH CENTRAL											
36	ALABAMA	10	6,957.51									36
37	KENTUCKY	11	4,364.00					3	1,333.10	2	2,752.20	37
38	MISSISSIPPI	2	622.23	1	637.35			3	338.00	2	603.70	38
39	TENNESSEE	7	7,443.65									39
40	**TOTALS**	**30**	**19,387.39**	**1**	**637.35**			**6**	**1,671.10**	**4**	**3,355.90**	**40**
	WEST SOUTH CENTRAL											
41	ARKANSAS	4	1,840.48					3	585.25			41
42	LOUISIANA	7	3,289.66	2	1,177.50	2	447.20	6	1,693.77	1	483.28	42
43	OKLAHOMA	2	235.90					9	2,578.26	3	1,027.48	43
44	TEXAS	6	1,469.48	3	1,961.50	22	9,144.44	28	5,617.95	11	6,069.97	44
45	**TOTALS**	**19**	**6,835.52**	**5**	**3,139.00**	**24**	**9,591.64**	**46**	**10,475.23**	**15**	**7,580.73**	**45**
	MOUNTAIN											
46	ARIZONA					1	113.60	7	1,667.20	2	138.00	46
47	COLORADO					1	281.75	4	1,277.50	6	450.75	47
48	IDAHO											48
49	MONTANA	3	291.80									49
50	NEVADA					1	110.00	3	499.15	1	133.00	50
51	NEW MEXICO					1	2,269.80	7	911.10	1	44.30	51
52	UTAH	2	84.00					2	440.24			52
53	WYOMING	1	456.70					1	380.20			53
54	**TOTALS**	**6**	**832.50**			**4**	**2,775.15**	**24**	**5,175.39**	**10**	**766.05**	**54**
	PACIFIC											
55	CALIFORNIA	1	1,277.80	21	15,437.05			14	3,007.71			55
56	OREGON	3	146.80									56
57	WASHINGTON	4	942.64	1	59.00							57
58	**TOTALS**	**8**	**2,367.24**	**22**	**15,496.05**			**14**	**3,007.71**			**58**
	NON-CONTIGUOUS U.S.											
59	ALASKA											59
60	HAWAII			4	907.93							60
61	PUERTO RICO			3	1,567.00							61
62	VIRGIN ISLANDS											62
63	**TOTALS**			**7**	**2,474.93**							**63**
64	**U.S. TOTALS**	**336**	**131,098.67**	**126**	**59,593.46**	**39**	**17,603.14**	**119**	**29,231.63**	**61**	**24,185.73**	**64**

TABLE 6-B

NUMBER OF PLANTS, CAPACITIES, AND TYPES OF COOLING BY WATER RESOURCE REGION, 1970

LINE NO	WATER RESOURCE REGION	ONCE THROUGH FRESH		ONCE THROUGH SALINE		COOLING PONDS		COOLING TOWERS		COMBINED SYSTEMS		LINE NO
		NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	
1	NEW ENGLAND	12	3,076.63	26	7,722.33					4	1,343.75	1
2	MIDDLE ATLANTIC	37	12,947.83	43	20,331.15					5	2,401.48	2
3	SOUTH ATLANTIC - GULF	37	15,440.38	23	10,430.00	2	1,274.45	5	758.90	9	3,542.73	3
4	GREAT LAKES	63	26,698.70			1	42.50	1	38.00	1	386.00	4
5	OHIO	69	32,626.77					10	6,414.40	6	4,967.73	5
6	TENNESSEE	9	8,572.96			1	206.64	1	669.00			6
7	UPPER MISSISSIPPI	51	15,320.47			4	2,423.16	3	261.80	3	1,410.06	7
8	LOWER MISSISSIPPI	11	6,484.90	2	1,177.50			7	1,800.27	3	1,086.98	8
9	SOURIS - RED - RAINY	1	116.10							1	136.90	9
10	MISSOURI	24	4,701.97			4	1,571.35	9	1,308.10	3	611.85	10
11	ARKANSAS - WHITE - RED	6	1,191.24			7	1,964.19	25	5,867.78	8	1,747.23	11
12	TEXAS - GULF	6	1,469.48	3	1,961.50	17	7,627.45	17	3,486.63	11	6,069.97	12
13	RIO GRANDE							12	1,917.55	1	44.30	13
14	UPPER COLORADO					1	2,269.80	2	351.80	2	109.50	14
15	LOWER COLORADO					1	113.60	11	2,217.85	2	138.00	15
16	GREAT BASIN	2	84.00			1	110.00	2	631.84	1	133.00	16
17	COLUMBIA - NORTH PACIFIC	7	1,089.44	1	59.00							17
18	CALIFORNIA - SOUTH PACIFIC	1	1,277.80	21	15,437.05			14	3,007.71	1	56.25	18
19	**TOTALS - CONTIGUOUS U.S.**	**336**	**131,098.67**	**119**	**57,118.53**	**39**	**17,603.14**	**119**	**29,231.63**	**61**	**24,185.73**	**19**
20	ALASKA											20
21	HAWAII			4	907.93							21
22	PUERTO RICO			3	1,567.00							22
23	**TOTALS - NON-CONTIGUOUS U.S.**			**7**	**2,474.93**							**23**
24	**TOTALS - UNITED STATES**	**336**	**131,098.67**	**126**	**59,593.46**	**39**	**17,603.14**	**119**	**29,231.63**	**61**	**24,185.73**	**24**

TABLE 7-A

AVERAGE COOLING WATER USE, BY REGION AND STATE, 1970

LINE NO	GEOGRAPHIC REGION AND STATE	TOTAL DESIGNED CONDENSER FLOW (CFS)		AVERAGE RATE OF WATER USE DURING THE YEAR (CFS)						LINE NO
				WITHDRAWAL		CONSUMPTION		DISCHARGE		
		FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	
	NEW ENGLAND									
1	CONNECTICUT	2,713.00	3,279.15	2,628.50	2,684.02			2,628.50	2,684.02	1
2	MAINE		513.70		335.30		.20		335.10	2
3	MASSACHUSETTS	1,888.90	5,336.79	1,798.80	3,907.12	.40		1,798.40	3,907.12	3
4	NEW HAMPSHIRE	416.00	245.00	444.00	252.40			444.00	252.40	4
5	RHODE ISLAND		854.00		693.55				721.70	5
6	VERMONT	68.10		45.70		.90		44.80		6
7	**TOTALS**	**5,086.00**	**10,228.64**	**4,917.00**	**7,872.39**	**1.30**	**.20**	**4,915.70**	**7,900.34**	**7**
	MIDDLE ATLANTIC									
8	NEW JERSEY	1,985.60	9,732.88	2,041.00	9,300.00			2,041.00	9,300.00	8
9	NEW YORK	7,446.30	18,268.36	6,369.31	11,806.00	1.71		6,367.61	11,806.00	9
10	PENNSYLVANIA	20,066.20	872.00	14,527.60	720.00	55.38		14,471.71	720.00	10
11	**TOTALS**	**29,498.10**	**28,873.24**	**22,937.91**	**21,826.00**	**57.09**		**22,880.32**	**21,826.00**	**11**
	EAST NORTH CENTRAL									
12	ILLINOIS	25,379.05		12,120.60		3.10		12,117.55		12
13	INDIANA	15,453.47		11,948.73		6.54		11,942.17		13
14	MICHIGAN	16,488.60		11,583.43		41.32		11,541.93		14
15	OHIO	23,649.68		17,802.35		25.66		17,775.71		15
16	WISCONSIN	9,387.90		6,514.80		1.00		6,513.80		16
17	**TOTALS**	**90,358.70**		**59,969.91**		**77.62**		**59,891.16**		**17**
	WEST NORTH CENTRAL									
18	IOWA	3,314.10		1,773.63		5.06		1,772.57		18
19	KANSAS	4,517.50		661.80		78.89		582.92		19
20	MINNESOTA	4,210.30		2,440.89		2.27		2,438.67		20
21	MISSOURI	6,111.27		4,026.09		21.59		4,004.50		21
22	NEBRASKA	1,932.70		868.32		2.32		865.00		22
23	NORTH DAKOTA	731.34		450.24		1.37		448.92		23
24	SOUTH DAKOTA	233.40		- 1.44		.98		.46		24
25	**TOTALS**	**21,050.61**		**10,222.41**		**112.48**		**10,113.04**		**25**
	SOUTH ATLANTIC									
26	DELAWARE	584.00	739.00	630.00	735.00			630.00	735.00	26
27	DISTRICT OF COLUMBIA	2,024.00		1,340.00				1,340.00		27
28	FLORIDA	4,844.30	13,901.75	4,397.00	13,897.00			4,397.00	13,897.00	28
29	GEORGIA	3,908.00	2,075.08	3,687.00	1,132.00	37.20	.50	3,649.80	1,131.50	29
30	MARYLAND	1,053.50	5,294.00	978.00	4,927.00	.10		977.90	4,927.00	30
31	NORTH CAROLINA	9,007.00		4,553.90				4,553.90		31
32	SOUTH CAROLINA	3,111.77	201.32	2,638.11	210.70	4.68		2,633.43	210.70	32
33	VIRGINIA	4,803.96	1,342.10	3,976.00	1,342.10	9.66		3,965.70	1,342.10	33
34	WEST VIRGINIA	6,808.60		6,751.00		19.63		6,731.37		34
35	**TOTALS**	**36,145.13**	**23,553.25**	**28,951.01**	**22,243.80**	**71.27**	**.50**	**28,879.10**	**22,243.30**	**35**
	EAST SOUTH CENTRAL									
36	ALABAMA	9,178.60		7,796.00		36.31		7,759.69		36
37	KENTUCKY	9,639.01		6,932.93		80.16		6,782.72		37
38	MISSISSIPPI	1,897.50	683.00	667.56	752.00	4.56		663.00	752.00	38
39	TENNESSEE	9,058.90		7,309.00		56.00		7,253.00		39
40	**TOTALS**	**29,774.01**	**683.00**	**22,705.49**	**752.00**	**177.03**		**22,458.46**	**752.00**	**40**
	WEST SOUTH CENTRAL									
41	ARKANSAS	2,830.35		1,547.99		5.42		1,542.57		41
42	LOUISIANA	7,270.46	1,492.40	3,727.75	1,111.00	24.03		3,704.00	1,111.00	42
43	OKLAHOMA	5,322.82		328.46		46.65		281.81		43
44	TEXAS	31,735.43	2,761.80	12,506.73	2,221.70	146.05	8.26	12,358.65	2,213.44	44
45	**TOTALS**	**47,159.06**	**4,254.20**	**18,110.93**	**3,332.70**	**222.15**	**8.26**	**17,887.03**	**3,324.44**	**45**
	MOUNTAIN									
46	ARIZONA	1,889.00		188.13		31.69		155.96		46
47	COLORADO	2,912.30		573.87		25.96		547.41		47
48	IDAHO									48
49	MONTANA	239.70		185.00		.10		184.90		49
50	NEVADA	927.70		105.85		28.96		76.89		50
51	NEW MEXICO	3,169.23		127.60		33.38		94.58		51
52	UTAH	1,261.50		128.00		7.00		121.00		52
53	WYOMING	614.00		308.90		10.80		301.70		53
54	**TOTALS**	**11,013.43**		**1,617.35**		**137.89**		**1,482.44**		**54**
	PACIFIC									
55	CALIFORNIA	5,367.80	16,907.10	1,643.07	13,550.80	24.14	.27	1,621.20	13,550.53	55
56	OREGON	424.20		93.60				93.60		56
57	WASHINGTON	2,468.20	131.00	836.00				836.00		57
58	**TOTALS**	**8,260.20**	**17,038.10**	**2,572.67**	**13,550.80**	**24.14**	**.27**	**2,550.80**	**13,550.53**	**58**
	NON-CONTIGUOUS U.S.									
59	ALASKA									59
60	HAWAII		1,867.00		1,152.80				1,152.80	60
61	PUERTO RICO		2,715.80		2,708.18				2,708.18	61
62	VIRGIN ISLANDS									62
63	**TOTALS**		**4,582.80**		**3,860.98**				**3,860.98**	**63**
64	**U.S. TOTALS**	**278,345.24**	**89,213.23**	**172,004.68**	**73,438.67**	**880.97**	**9.23**	**171,058.05**	**73,457.59**	**64**

Note: The following corrected figures for 1969 should be substituted for those shown in FPC publication S-229:

	Average Rate of Water Use During 1969 (CFS)		
	Withdrawal Fresh	Consumption Fresh	Discharge Fresh
Kentucky	7,064.02	133.32	6,820.70
East South Central-totals	22,884.37	234.98	22,639.39
U. S. Totals	165,231.75	1,058.29	164,158.17

TABLE 7-B

AVERAGE COOLING WATER USE, BY WATER RESOURCE REGION, 1970

LINE NO	WATER RESOURCE REGION	TOTAL DESIGNED CONDENSER FLOW (CFS)		AVERAGE RATE OF WATER USE DURING THE YEAR (CFS)						LINE NO
				WITHDRAWAL		CONSUMPTION		DISCHARGE		
		FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	
1	NEW ENGLAND	5,086.00	12,110.02	4,917.00	9,500.39	1.30	.20	4,915.70	9,528.34	1
2	MIDDLE ATLANTIC	21,093.96	34,366.96	18,704.80	27,202.10	18.83		18,634.83	27,202.10	2
3	SOUTH ATLANTIC - GULF	26,089.27	16,861.15	19,569.01	15,991.70	42.19	.50	19,526.82	15,991.20	3
4	GREAT LAKES	47,343.10		33,306.46		43.00		33,262.30		4
5	OHIO	56,528.10		43,247.89		188.93		42,988.99		5
6	TENNESSEE	12,188.10		9,127.10		83.50		9,043.60		6
7	UPPER MISSISSIPPI	29,539.71		14,289.73		7.46		14,286.27		7
8	LOWER MISSISSIPPI	10,265.16	1,492.40	6,015.99	1,111.00	30.99		5,985.27	1,111.00	8
9	SOURIS - RED - RAINY	365.80		289.59		.27		289.37		9
10	MISSOURI	10,313.82		5,409.35		96.24		5,321.26		10
11	ARKANSAS - WHITE - RED	15,192.00		2,094.25		98.49		1,996.78		11
12	TEXAS - GULF	26,656.43	2,761.80	11,763.68	2,221.70	120.59	8.26	11,642.22	2,213.44	12
13	RIO GRANDE	2,986.60		116.22		22.81		92.76		13
14	UPPER COLORADO	2,129.10		151.70		28.70		116.00		14
15	LOWER COLORADO	2,666.13		197.38		39.90		156.85		15
16	GREAT BASIN	1,566.10		229.60		33.60		196.00		16
17	COLUMBIA - NORTH PACIFIC	2,892.40	131.00	929.60				929.60		17
18	CALIFORNIA - SOUTH PACIFIC	5,443.46	16,907.10	1,645.33	13,550.80	24.17	.27	1,623.43	13,550.53	18
19	**TOTALS - CONTIGUOUS U.S.**	**278,345.24**	**84,630.43**	172,004.68	**69,577.69**	880.97	**9.23**	171,058.05	**69,596.61**	**19**
20	ALASKA									20
21	HAWAII		1,867.00		1,152.80				1,152.80	21
22	PUERTO RICO		2,715.80		2,708.18				2,708.18	22
23	**TOTALS - NON-CONTIGUOUS U.S.**		**4,582.80**		**3,860.98**				**3,860.98**	**23**
24	**TOTALS - UNITED STATES**	**278,345.24**	**89,213.23**	172,004.68	**73,438.67**	880.97	**9.23**	171,058.05	**73,457.59**	**24**

Note: The following corrected figures for 1969 should be substituted for those shown in FPC publication S-229:

	Average Rate of Water Use During 1969 (CFS)		
	Withdrawal Fresh	Consumption Fresh	Discharge Fresh
Ohio Region	40,410.41	232.26	40,168.21
Totals-Contiguous United States	165,231.75	1,058.29	164,158.17
Totals-United States	165,231.75	1,058.29	164,158.17

TABLE 8-A

USE OF CHEMICAL ADDITIVES, BY REGION AND STATE, 1970

LINE NO	GEOGRAPHIC REGION AND STATE	COOLING WATER ADDITIVES (TONS)				BOILER WATER ADDITIVES (TONS)					LINE NO
		PHOSPHATE	LIME	ALUM	CHLORINE	PHOSPHATE	CAUSTIC SODA	LIME	ALUM	CHLORINE	
	NEW ENGLAND										
1	CONNECTICUT				240.25	24.71	33.73				1
2	MAINE					3.60	3.25				2
3	MASSACHUSETTS	5.23	.06	15.57	403.39	42.28	1,288.28	2.34	31.21	6.43	3
4	NEW HAMPSHIRE				53.45	.80	128.87				4
5	RHODE ISLAND				20.55	62.05	12.74				5
6	VERMONT					.15	6.93				6
7	**TOTALS**	**5.23**	**.06**	**15.57**	**717.64**	**133.59**	**1,473.80**	**2.34**	**31.21**	**6.43**	**7**
	MIDDLE ATLANTIC										
8	NEW JERSEY				3,861.65	50.98	3,091.93	21.71	278.68	.15	8
9	NEW YORK				1,997.13	303.47	2,350.80	268.07	18.45	.80	9
10	PENNSYLVANIA	1.45	3,041.21	1,078.96	1,445.64	46.40	3,628.17	59.95	234.53	20.68	10
11	**TOTALS**	**1.45**	**3,041.21**	**1,078.96**	**7,304.42**	**400.85**	**9,070.90**	**349.73**	**531.66**	**21.63**	**11**
	EAST NORTH CENTRAL										
12	ILLINOIS		379.30	90.55	2,798.11	59.29	2,894.76	770.76	96.89	5.00	12
13	INDIANA				1,037.07	27.61	726.00	1,445.83	96.55	23.30	13
14	MICHIGAN				1,401.15	31.34	2,341.10	494.07	12.21	28.98	14
15	OHIO	31.20	1,333.90	198.10	1,495.17	32.89	2,818.82	338.27	.45	8.80	15
16	WISCONSIN	.10			512.85	35.87	1,857.50	21.73	13.61		16
17	**TOTALS**	**31.30**	**1,713.20**	**288.65**	**7,244.35**	**187.00**	**10,638.18**	**3,070.66**	**219.71**	**66.08**	**17**
	WEST NORTH CENTRAL										
18	IOWA		190.00	33.50	179.51	7.26	310.19	160.15	72.68	3.53	18
19	KANSAS	152.77	1,222.42	47.26	184.68	4.45	243.53	37.65	3.93		19
20	MINNESOTA				195.63	32.53	84.90	17.63	11.05	.10	20
21	MISSOURI	29.15	267.30	74.34	249.12	75.91	2,049.82	1,582.16	3.49	34.81	21
22	NEBRASKA	2.00	1,290.60	76.20	24.00	2.68	94.49	146.50	20.55		22
23	NORTH DAKOTA					1.08	.41	78.33	14.80	.44	23
24	SOUTH DAKOTA	2.75	458.50	53.20	5.65	.81	24.60				24
25	**TOTALS**	**186.67**	**3,428.82**	**284.50**	**838.59**	**124.72**	**2,807.94**	**2,022.42**	**126.50**	**38.88**	**25**
	SOUTH ATLANTIC										
26	DELAWARE				112.00	2.99	849.23	43.45		25.67	26
27	DISTRICT OF COLUMBIA			65.13	86.40	12.18	.03	9.13			27
28	FLORIDA				891.12	17.25	1,986.33	303.28	43.46	73.04	28
29	GEORGIA				378.45	1.94	23.30	6.71	93.01	1.05	29
30	MARYLAND		27.00	115.08	1,192.73	.71	492.15	7.13	.35	.23	30
31	NORTH CAROLINA				186.25	14.35	89.68		67.50	6.35	31
32	SOUTH CAROLINA	.75			53.75	3.57	611.73		176.00	.73	32
33	VIRGINIA			101.01	416.71	8.40	578.41	8.54	95.89	.25	33
34	WEST VIRGINIA				128.21	4.98	585.33	114.28	13.90	4.52	34
35	**TOTALS**	**.75**	**27.00**	**281.22**	**3,445.62**	**66.37**	**5,216.19**	**492.52**	**490.11**	**111.84**	**35**
	EAST SOUTH CENTRAL										
36	ALABAMA					3.29	212.65		170.26	8.90	36
37	KENTUCKY		27.31	62.95	425.13	10.29	476.39	41.13	67.62	3.55	37
38	MISSISSIPPI	5.66	329.70	81.55	22.99	6.59	179.28	7.50			38
39	TENNESSEE				134.85	8.53	95.92		71.28	1.93	39
40	**TOTALS**	**5.66**	**357.01**	**144.50**	**582.97**	**28.70**	**964.24**	**48.63**	**309.16**	**14.38**	**40**
	WEST SOUTH CENTRAL										
41	ARKANSAS	1.76	530.35	209.93	97.20	1.94	61.11				41
42	LOUISIANA	3.65		16.50	288.44	16.36	1,958.37	1,200.00	9.50	5.55	42
43	OKLAHOMA	107.18	319.17	18.15	142.93	1.27	221.44	14.50	5.14	.81	43
44	TEXAS	199.74	2,577.90	116.62	1,713.30	52.37	4,308.03	225.84	5.95	718.64	44
45	**TOTALS**	**312.33**	**3,427.42**	**361.20**	**2,241.87**	**71.94**	**6,548.95**	**1,440.34**	**20.59**	**725.00**	**45**
	MOUNTAIN										
46	ARIZONA	81.90			86.14	.74	154.02	23.12			46
47	COLORADO	75.72	4.27	15.16	142.12	10.92	16.50	1.83	6.50		47
48	IDAHO										48
49	MONTANA					.22	.11	10.80	1.08	.41	49
50	NEVADA	31.42	1,325.00		463.76	1.02	257.38				50
51	NEW MEXICO	24.28			91.49	6.90	226.32	82.07	14.60		51
52	UTAH	47.60			58.00	3.66	.87				52
53	WYOMING	8.58			26.00	.16	.16	16.70			53
54	**TOTALS**	**269.50**	**1,329.27**	**15.16**	**867.51**	**23.62**	**655.36**	**134.52**	**22.18**	**.41**	**54**
	PACIFIC										
55	CALIFORNIA	51.64			1,398.92	52.85	531.29	262.60			55
56	OREGON					2.15	5.95				56
57	WASHINGTON					2.74	1.83				57
58	**TOTALS**	**51.64**			**1,398.92**	**57.74**	**539.07**	**262.60**			**58**
	NON-CONTIGUOUS U.S.										
59	ALASKA										59
60	HAWAII					1.94	.69				60
61	PUERTO RICO				.50	3.13	82.86				61
62	VIRGIN ISLANDS										62
63	**TOTALS**				**.50**	**5.07**	**83.55**				**63**
64	**U.S. TOTALS**	**864.53**	**13,323.99**	**2,469.76**	**24,642.39**	**1,099.60**	**37,998.18**	**7,823.76**	**1,751.12**	**984.65**	**64**

TABLE 8-B

USE OF CHEMICAL ADDITIVES, BY WATER RESOURCE REGION, 1970

LINE NO	WATER RESOURCE REGION	COOLING WATER ADDITIVES (TONS)				BOILER WATER ADDITIVES (TONS)					LINE NO
		PHOSPHATE	LIME	ALUM	CHLORINE	PHOSPHATE	CAUSTIC SODA	LIME	ALUM	CHLORINE	
1	NEW ENGLAND	5.23	.06	15.57	757.64	140.39	1,653.09	2.34	31.21	6.43	1
2	MIDDLE ATLANTIC	1.45	30.38	334.82	8,605.09	391.30	8,193.19	81.42	521.79	34.80	2
3	SOUTH ATLANTIC - GULF	.75			1,519.25	38.74	2,833.31	317.49	518.94	87.94	3
4	GREAT LAKES			12.50	3,027.25	109.97	5,317.82	946.95	65.85	29.78	4
5	OHIO	31.20	4,768.34	1,350.66	2,750.65	81.97	6,433.73	1,850.74	278.04	52.74	5
6	TENNESSEE				155.85	10.64	169.10		85.57	3.67	6
7	UPPER MISSISSIPPI	.10	200.00	47.30	3,028.88	127.30	3,683.19	1,442.37	150.57	8.63	7
8	LOWER MISSISSIPPI	9.31	372.85	307.98	387.52	22.79	2,178.92	1,200.00	9.50	5.55	8
9	SOURIS - RED - RAINY				5.22	1.06	31.84		8.18		9
10	MISSOURI	117.02	2,803.61	239.83	305.37	37.84	1,292.30	773.76	45.85	35.66	10
11	ARKANSAS - WHITE - RED	245.58	2,580.22	145.42	400.88	13.39	922.13	603.70	8.54	.80	11
12	TEXAS - GULF	178.99	275.00	.50	1,547.36	43.16	3,801.47	205.37	5.95	718.64	12
13	RIO GRANDE	44.78	964.25		78.10	11.63	232.40	21.67			13
14	UPPER COLORADO	26.98	4.27	15.16	63.00	1.73	220.95	75.52	21.10		14
15	LOWER COLORADO	113.32	1,325.00		541.14	1.13	357.40	23.12			15
16	GREAT BASIN	38.18			69.76	3.74	54.45	16.70			16
17	COLUMBIA - NORTH PACIFIC					4.89	7.78				17
18	CALIFORNIA - SOUTH PACIFIC	51.64	.01	.02	1,398.93	52.86	531.56	262.61	.03	.01	18
19	**TOTALS - CONTIGUOUS U.S.**	**864.53**	**13,323.99**	**2,469.76**	**24,641.89**	**1,094.53**	**37,914.63**	**7,823.76**	**1,751.12**	**984.65**	**19**
20	ALASKA										20
21	HAWAII					1.94	.69				21
22	PUERTO RICO				.50	3.13	82.86				22
23	**TOTALS - NON-CONTIGUOUS U.S.**				**.50**	**5.07**	**83.55**				**23**
24	**TOTALS - UNITED STATES**	**864.53**	**13,323.99**	**2,469.76**	**24,642.39**	**1,099.60**	**37,998.18**	**7,823.76**	**1,751.12**	**984.65**	**24**

TABLE 9-A

WATER TREATMENT EXPENSES AND COOLING FACILITY COSTS BY REGION AND STATE, 1970

LINE NO	GEOGRAPHIC REGION AND STATE	COSTS OF INSTALLED FACILITIES ($1,000)				ANNUAL EXPENSES ($1,000)				LINE NO
		COOLING WATER				COOLING WATER		BOILER WATER MAKEUP & BLOWDOWN TREATMENT		
		ONCE THROUGH FRESH	ONCE THROUGH SALINE	COOLING PONDS	COOLING TOWERS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	
	NEW ENGLAND									
1	CONNECTICUT		9,016.33		106.18	639.05	100.64	444.20	113.03	1
2	MAINE		2,773.70				7.10		19.50	2
3	MASSACHUSETTS	3,873.55	12,967.95		477.24	601.56	122.10	689.07	175.23	3
4	NEW HAMPSHIRE	1,924.00	1,889.00			86.00	15.30	100.60	19.40	4
5	RHODE ISLAND		3,161.00			15.80	4.82	513.50	20.07	5
6	VERMONT	141.00				4.50		3.00	3.60	6
7	**TOTALS**	**5,938.55**	**29,807.98**		**577.42**	**1,346.91**	**249.96**	**1,750.37**	**350.23**	**7**
	MIDDLE ATLANTIC									
8	NEW JERSEY	4,632.40	30,500.10			788.50	306.30	1,119.95	432.00	8
9	NEW YORK	34,363.90	46,755.31			2,502.90	318.45	3,045.11	381.20	9
10	PENNSYLVANIA	41,075.77		42.80	21,717.20	1,716.08	357.07	1,260.39	1,415.55	10
11	**TOTALS**	**80,072.07**	**77,255.41**	**42.80**	**21,717.20**	**5,007.48**	**981.82**	**5,425.45**	**2,228.75**	**11**
	EAST NORTH CENTRAL									
12	ILLINOIS	76,240.60		8,609.00	2,887.00	1,780.59	421.33	2,447.41	874.07	12
13	INDIANA	31,874.80			1,403.60	974.73	120.72	1,281.10	231.18	13
14	MICHIGAN	12,813.00		1,100.00	1,015.00	1,308.46	117.32	5,979.44	279.98	14
15	OHIO	54,594.60			7,594.00	2,119.00	239.20	1,338.14	609.60	15
16	WISCONSIN	19,875.50				817.20	106.64	550.40	266.92	16
17	**TOTALS**	**195,397.90**		**9,709.00**	**12,899.60**	**6,999.98**	**1,005.21**	**11,596.49**	**2,261.75**	**17**
	WEST NORTH CENTRAL									
18	IOWA	8,666.00		314.60	2,836.32	327.20	89.10	340.40	166.10	18
19	KANSAS	4,516.24		812.00	13,718.89	446.19	254.60	253.03	86.18	19
20	MINNESOTA	11,931.00		282.00	2,175.00	340.38	39.72	108.57	42.11	20
21	MISSOURI	29,331.30		3,482.00	2,409.03	338.96	88.18	645.06	347.00	21
22	NEBRASKA	6,618.40			2,591.80	95.37	100.74	97.46	49.00	22
23	NORTH DAKOTA	2,341.80		850.00		27.30		83.40	38.95	23
24	SOUTH DAKOTA	2,337.00			884.00	120.00	47.70	40.00	9.90	24
25	**TOTALS**	**65,741.74**		**5,740.00**	**24,615.04**	**1,695.40**	**620.04**	**1,567.92**	**739.24**	**25**
	SOUTH ATLANTIC									
26	DELAWARE	2,533.00	385.00			101.10	15.70	83.30	27.80	26
27	DISTRICT OF COLUMBIA	1,677.00			460.00	73.00		136.00		27
28	FLORIDA	11,422.70	40,553.50		4,458.00	695.08	158.90	784.24	283.30	28
29	GEORGIA	811.50	1,555.30			258.30	58.50	161.80	51.90	29
30	MARYLAND	3,413.00	23,324.00			707.00	43.32	201.60	23.70	30
31	NORTH CAROLINA	15,682.40		8,802.80	101.50	371.90	52.30	61.60	33.60	31
32	SOUTH CAROLINA	4,516.52	37.00	6,731.25	2,418.10	124.69	17.27	74.55	116.44	32
33	VIRGINIA	13,182.00	6,616.00		985.00	398.00	61.77	351.30	76.18	33
34	WEST VIRGINIA	2,645.00		6,523.00	10,814.00	550.43	26.73	200.31	117.39	34
35	**TOTALS**	**55,883.12**	**72,470.80**	**22,057.05**	**19,236.60**	**3,279.50**	**434.49**	**2,054.70**	**730.31**	**35**
	EAST SOUTH CENTRAL									
36	ALABAMA	21,986.00				256.00		407.00	96.60	36
37	KENTUCKY	36,106.44			7,503.72	638.50	81.27	448.50	173.78	37
38	MISSISSIPPI	3,428.00	1,090.70	3,027.50	1,791.78	278.40	60.32	90.70	80.90	38
39	TENNESSEE	19,385.00				214.00	15.00	320.00	91.00	39
40	**TOTALS**	**80,905.44**	**1,090.70**	**3,027.50**	**9,295.50**	**1,386.90**	**156.59**	**1,266.20**	**442.28**	**40**
	WEST SOUTH CENTRAL									
41	ARKANSAS	8,860.10			1,827.20	88.44	55.19	71.40	67.76	41
42	LOUISIANA	18,443.90	9,325.30	1,411.50	13,436.74	185.10	74.67	133.30	131.09	42
43	OKLAHOMA	1,077.20		2,296.40	7,565.18	63.00	329.00	32.10	65.87	43
44	TEXAS	1,995.60	2,046.00	37,468.88	32,314.68	1,280.35	1,107.32	587.04	1,105.75	44
45	**TOTALS**	**30,376.80**	**7,371.30**	**41,176.78**	**55,083.80**	**1,616.89**	**1,566.18**	**823.84**	**1,370.47**	**45**
	MOUNTAIN									
46	ARIZONA	356.92		730.00	7,162.33	127.36	106.08	136.96	339.27	46
47	COLORADO	1,344.00		1,426.00	5,758.00	247.97	147.16	85.89	35.95	47
48	IDAHO									48
49	MONTANA	1,502.70				23.00		23.50	4.10	49
50	NEVADA	118.00		612.00	1,308.00		2.10		7.00	50
51	NEW MEXICO			11,280.00	4,227.34	219.30	66.73	48.10	108.73	51
52	UTAH	76.08			2,286.06	117.53	102.90	70.44	10.08	52
53	WYOMING	3,232.00			1,265.70	78.70	38.15	53.80	30.81	53
54	**TOTALS**	**6,629.70**		**14,048.00**	**22,007.43**	**813.86**	**463.12**	**418.69**	**535.94**	**54**
	PACIFIC									
55	CALIFORNIA	3,342.00	79,653.40		17,154.90	1,680.18	365.47	779.28	257.92	55
56	OREGON	498.00				7.60		5.22	5.15	56
57	WASHINGTON	4,056.00	103.00			35.50		78.72	2.96	57
58	**TOTALS**	**7,886.00**	**79,756.40**		**17,154.90**	**1,723.28**	**365.47**	**863.22**	**266.03**	**58**
	NON-CONTIGUOUS U.S.									
59	ALASKA									59
60	HAWAII		8,384.67			83.60		109.70	46.80	60
61	PUERTO RICO					34.60	14.40	68.00	27.50	61
62	VIRGIN ISLANDS									62
63	**TOTALS**		**8,384.67**			**118.20**	**14.40**	**177.70**	**74.30**	**63**
64	**U.S. TOTALS**	**528,831.32**	**276,137.26**	**95,801.13**	**182,587.49**	**23,988.40**	**5,857.28**	**25,944.58**	**8,999.30**	**64**

TABLE 9-B

WATER TREATMENT EXPENSES AND COOLING FACILITY COSTS BY WATER RESOURCE REGION, 1970

LINE NO	WATER RESOURCE REGION	COSTS OF INSTALLED FACILITIES ($1,000)				ANNUAL EXPENSES ($1,000)				LINE NO
		COOLING WATER				COOLING WATER		BOILER WATER MAKEUP & BLOWDOWN TREATMENT		
		ONCE THROUGH FRESH	ONCE THROUGH SALINE	COOLING PONDS	COOLING TOWERS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	
1	NEW ENGLAND	5,938.55	37,380.98		577.42	1,615.91	269.96	2,138.37	364.93	1
2	MIDDLE ATLANTIC	46,633.60	100,007.41	6,565.80	1,635.20	4,658.91	791.93	5,072.50	1,712.08	2
3	SOUTH ATLANTIC - GULF	44,959.12	43,236.50	14,168.05	8,016.60	1,711.47	321.57	1,393.09	595.84	3
4	GREAT LAKES	96,420.33		1,100.00	1,015.00	3,452.51	358.82	8,280.71	875.64	4
5	OHIO	135,625.48			50,744.32	4,690.13	671.70	2,824.70	1,604.53	5
6	TENNESSEE	26,169.00		1,366.00	985.00	302.20	42.10	433.60	112.30	6
7	UPPER MISSISSIPPI	88,544.00		9,205.00	4,469.32	2,197.44	487.51	2,563.14	1,052.38	7
8	LOWER MISSISSIPPI	28,957.00	5,325.30	3,527.50	14,368.02	414.94	112.28	181.30	222.95	8
9	SOURIS - RED - RAINY	1,339.00			542.00	28.38	3.28	21.87	11.43	9
10	MISSOURI	31,472.70		5,310.00	12,070.78	692.54	353.89	790.10	340.66	10
11	ARKANSAS - WHITE - RED	11,402.94		7,122.46	28,611.32	767.27	742.44	411.93	212.27	11
12	TEXAS - GULF	1,995.60	2,046.00	34,465.32	21,073.98	864.70	860.37	412.54	1,031.03	12
13	RIO GRANDE				8,432.80	379.70	178.31	99.70	54.73	13
14	UPPER COLORADO	937.00		11,629.00	1,112.51	154.43	66.42	56.71	93.94	14
15	LOWER COLORADO	356.92		730.00	8,707.07	133.06	111.08	137.66	343.27	15
16	GREAT BASIN	194.08		612.00	3,071.25	83.33	105.75	85.74	30.99	16
17	COLUMBIA - NORTH PACIFIC	4,544.00	103.00			43.10		83.94	8.11	17
18	CALIFORNIA - SOUTH PACIFIC	3,342.00	79,653.40		17,154.90	1,680.18	365.47	779.28	257.92	18
19	**TOTALS - CONTIGUOUS U.S.**	**528,831.32**	**267,752.59**	**95,801.13**	**182,587.49**	**23,870.20**	**5,842.88**	**25,766.88**	**8,925.00**	**19**
20	ALASKA									20
21	HAWAII		8,384.67			83.60		109.70	46.80	21
22	PUERTO RICO					34.60	14.40	68.00	27.50	22
23	**TOTALS - NON-CONTIGUOUS U.S.**		**8,384.67**			**118.20**	**14.40**	**177.70**	**74.30**	**23**
24	**TOTALS - UNITED STATES**	**528,831.32**	**276,137.26**	**95,801.13**	**182,587.49**	**23,988.40**	**5,857.28**	**25,944.58**	**8,999.30**	**24**

NAME OF UTILITY	ALABAMA POWER CO.	ALABAMA POWER CO.	ALABAMA POWER CO.	ALABAMA POWER CO.	ALABAMA POWER CO.		
NAME OF PLANT	BARRY	CHICKASAW	GADSDEN	GORGAS #2 & #3	GREENE		
UTILITY-PLANT CODE	004500-0200	004500-0400	004500-0500	004500-0600	004500-0800		
STATE	ALABAMA	ALABAMA	ALABAMA	ALABAMA	ALABAMA		
COUNTY	MOBILE	MOBILE	ETOWAH	WALKER	GREENE		
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	005 03	005 03	003 03	004 03	004 03		
PLANT CAPACITY (MW)	982.00	138.00	138.00	757.00	568.00		
ANNUAL GENERATION (MWH) 3/	5,231,100	728,000	683,600	4,335,100	3,492,600		
PLANT HEAT RATE (BTU/KWH) 3/	9,858	13,901	12,416	12,416	9,406		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	2,086.70	50.90	134.30	1,970.70	1,365.90		
AVERAGE HEAT CONTENT (BTU/LB)	12,289	11,653	12,041	11,782	12,006		
AVERAGE SULFUR CONTENT (%)	2.31	1.80	1.50	1.60	2.00		
AVERAGE ASH CONTENT (%)	11.74	13.83	11.71	13.60	14.14		
AVERAGE MOISTURE CONTENT (%)	7.38	6.55	7.46	6.92	7.01		
OIL: CONSUMPTION (1,000 BARRELS)	46.95	.35	.52	17.24	9.24		
AVERAGE HEAT CONTENT (BTU/GAL)	140,480	140,480	137,300	136,935	136,935		
AVERAGE SULFUR CONTENT (%)	.50	.50	.50	.50	.50		
GAS: CONSUMPTION (1,000 MCF)		8,455.50	5,055.80				
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,053	1,038				

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	3	2	7	2		
- NO. OF WET BOTTOM	2			4	2		
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS	3	3		4			
- NO. WITH ELECTROSTATIC PRECIPITATORS	1		2		2		
- NO. WITH COMBINATION PRECIPITATORS 4/							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	15.00 14.00	15.00 22.00	20.00	15.00	18.00 20.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	84.00 85.00	85.00		84.00 87.00			
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH	80.00	80.00		84.00 85.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	98.00		95.00 97.00		98.00		
TESTED, LOW - HIGH							
EST., LOW - HIGH	85.00		70.00 85.00		95.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	32.68	1.19	2.85	59.22	6.28		
SULFUR DIOXIDE (1,000 TONS)	94.55	1.79	3.95	61.84	53.56		
NITROGEN OXIDES (1,000 TONS)	26.99	2.11	2.20	27.69	20.51		
STACKS: - TOTAL NO.	4	3	2	7	2		
- HEIGHT (FEET), LOWEST - HIGHEST 8/	200.00 600.00	174.50	147.30 153.30	178.00 250.00	300.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/							
TOTAL ASH: COLLECTED (1,000 TONS) 10/	226.40	6.20	13.80	207.90	183.40		
SOLD (1,000 TONS) 11/	.20						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	955.00	296.01		1,072.00			
ELECTROSTATIC PRECIPITATORS ($1,000)	1,016.00		395.60		1,071.00		
COMBINATION PRECIPITATORS ($1,000) 4/							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	920.00	11.00	11.00	181.00	296.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	127.00	25.00	47.00	209.00	95.00		
REVENUES FROM SALE OF ASH ($1,000)	.50						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	127.00	25.00	47.00	209.00	95.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)	.50						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MOBILE	R MOBILE	R COOSA	R BLACK WARRIOR	R BLACK WARRIOR		
AVERAGE RATE OF WITHDRAWAL (CFS)	985.00	281.00	204.00	746.00	479.00		
AVERAGE RATE OF DISCHARGE (CFS)	985.00	281.00	204.00	746.00	479.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	8.47	2.42	1.75	6.42	4.12		
PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 51.00	94.00 57.00	87.00 49.00	76.00 47.00	91.00 52.00		
AT OUTFALL, SUMMER - WINTER		109.00 78.00	99.00 66.00	91.00 68.00			
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	13,169.00	13,169.00	3,759.00	1,362.00	3,535.00		
- WINTER	37,223.00	37,223.00	8,615.00	3,644.00	13,034.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.15	.24	.03	.56			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	26.48	.74	.14	2.11			
LIME (TONS), COOLING WATER - BOILER MAKEUP							
ALUM (TONS), COOLING WATER - BOILER MAKEUP	38.56			17.90	50.51		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	3.12			.80	1.50		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST/OT	ST	ST	ST	OT		
RECEIVING WATER BODY	R MOBILE				R BLACK WARRIOR		
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	9.00 7.00	9.00 7.00	9.00 6.00	9.00 7.00	9.00 6.00		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	3.00 50.00	3.00 25.00	3.00 25.00	3.00 5.00	3.00 5.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	200.00	560.00	8.40	260.00	2,000.00		
- ASH SETTLING	220,000.00	2,500.00	5,000.00	100,000.00	60,000.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	4 982.01	3 138.00	2 138.00	6 756.90	2 568.48		
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)							
COOLING TOWER(S)							
COMBINATIONS 21/							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1969	1941 1951	1949	1929 1958	1965		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	17.00 19.30	14.00	20.00	15.60 16.00	16.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,136.70	326.60	263.00	1,196.50	612.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	837.00	333.30	262.40	1,200.00	612.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	2,810.00	149.00	306.00	1,389.00	1,726.00		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	48.00	44.00	13.00	48.00	20.00		
COST OF CHEMICAL ADDITIVES ($1,000)							

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	95.00	28.00	9.00	73.00	38.00		
COST OF CHEMICAL ADDITIVES ($1,000)	19.80	1.30	6.50	13.00	15.00		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	ALEXANORIA ELEC. LIGHT & WATER WORKS	APPALACHIAN POWER CO	APPALACHIAN POWER CO	APPALACHIAN POWER CO	APPALACHIAN POWER CO	
4	NAME OF PLANT	ALEXANORIA # 2	CABIN CREEK	CLINCH RIVER	GLEN LYN	KANAWHA RIVER	
5	UTILITY-PLANT CODE	007000-0200	014000-0300	014000-0500	014000-0600	014000-0700	
6	STATE	LOUISIANA	WEST VIRGINIA	VIRGINIA	VIRGINIA	WEST VIRGINIA	
7	COUNTY	RAPIDES	KANAWHA	RUSSELL	GILES	KANAWHA	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	106 11	234 05	207 06	226 05	234 05	
9	PLANT CAPACITY (MW)	97.50	273.50	669.00	401.10	426.00	
10	ANNUAL GENERATION (MWH) [3]	292,800	615,300	5,223,700	2,117,200	3,381,500	
11	PLANT HEAT RATE (BTU/KWH) [3]	13,124	11,640	9,057	10,215	9,047	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		291.30	1,972.00	914.30	1,320.70	
13	AVERAGE HEAT CONTENT (BTU/LB)		12,374	11,917	11,521	11,630	
14	AVERAGE SULFUR CONTENT (%)		1.41	.62	1.03	1.00	
15	AVERAGE ASH CONTENT (%)		12.06	17.00	17.32	15.47	
16	AVERAGE MOISTURE CONTENT (%)		5.31	5.58	6.36	6.27	
17	OIL: CONSUMPTION (1,000 BARRELS)						
18	AVERAGE HEAT CONTENT (BTU/GAL)						
19	AVERAGE SULFUR CONTENT (%)						
20	GAS: CONSUMPTION (1,000 MCF)	3,618.20					
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000					

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	9	3	10	2	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS		9	3	3		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					2	
27	- NO. WITH COMBINATION PRECIPITATORS [4]				1		
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	6.00 10.00	20.00	20.00	15.00 20.00	15.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		15.00 85.00		85.00		
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH		15.00 85.00	85.00	85.00		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH				95.00	98.50	
34	TESTED, LOW - HIGH					96.40	
35	EST., LOW - HIGH				95.00		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)		4.49	42.74	14.20	6.25	
40	SULFUR DIOXIDE (1,000 TONS)		8.06	23.96	18.46	25.89	
41	NITROGEN OXIDES (1,000 TONS)	.71	2.63	17.75	8.19	11.89	
42	STACKS: - TOTAL NO.	3	3	2	5	1	
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	63.50 93.00	250.00 262.00	450.00	225.00 435.00	325.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]		35.00	342.40	149.40	211.60	
46	SOLD (1,000 TONS) [11]			12.60	6.80	34.40	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			183.00			
51	ELECTROSTATIC PRECIPITATORS ($1,000)					2,966.00	
52	COMBINATION PRECIPITATORS ($1,000) [4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)			461.00		519.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		33.70	70.90	79.70	57.70	
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		33.70	70.90	79.70	57.70	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	C CABIN	R CLINCH	R NEW	R KANAWHA	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	.54	400.00	11.10	533.00	640.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	.01	400.00	1.60	533.00	640.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.54	3.44	9.50	4.58	5.50	
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL FEB	AUG DEC	AUG DEC	AUG DEC	AUG DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 86.00	85.00 48.00	83.50 35.00	84.00 51.00	83.00 43.80	
67	AT OUTFALL, SUMMER - WINTER	105.00 100.00	93.00 56.00	79.00 59.00	98.00 65.00	97.00 57.20	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		12,580.00	695.00	3,568.00	10,240.00	
69	- WINTER		12,580.00	695.00	3,568.00	10,240.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, [16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.05	.15		1.02	.26	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	4.00	.08		.15	.28	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				8.54		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			2.75			
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		.50	48.00 .10	14.86	15.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES	YES YES		YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS/SW	ST	OT	OT	ST	
78	RECEIVING WATER BODY		C CABIN		R NEW	R KANAWHA	
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING		7.40	12.50	9.00	6.80	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		90.00		5.60	23.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING		86,000.00		99,000.00	35.00	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		1 273.50		4 403.10	2 426.00	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING PONDS(S)						
86	COOLING TOWER(S)	3 97.50		3 712.50			
87	COMBINATIONS [21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1956 1963	1943	1958 1961	1924 1957	1953	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	18.00 20.00	8.30	18.80	12.20 12.80	13.60	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	186.00	405.60	660.00	527.70	606.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		778.00		774.00	625.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)						
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)	286.00		985.00			

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.00	3.90	20.10	10.60	2.80	
96	COST OF CHEMICAL ADDITIVES ($1,000)	9.10		27.40	2.20	2.10	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.00	8.00	2.40	3.90	5.20	
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.30	2.00	.80	2.70	2.10	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	ARIZONA PUBLIC SERVICE CO	ARIZONA PUBLIC SERVICE CO	ARIZONA PUBLIC SERVICE CO.	ARIZONA PUBLIC SERVICE CO	ARIZONA PUBLIC SERVICE CO.		
NAME OF PLANT	CHOLLA	FOUR CORNERS	OCOTILLO	PHOENIX	SAGUARO		
UTILITY-PLANT CODE	017000-0200	017000-0300	017000-0500	017000-0600	017000-0700		
STATE	ARIZONA	NEW MEXICO	ARIZONA	ARIZONA	ARIZONA		
COUNTY	NAVAJO	SAN JUAN	MARICOPA	MARICOPA	PINAL		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	014 15	014 14	015 15	015 15	015 15		
PLANT CAPACITY (MW)	113.60	2,269.80	227.20	116.00	250.00		
ANNUAL GENERATION (MWH) [3]	872,300	9,900,800	848,900	3,000	256,000		
PLANT HEAT RATE (BTU/KWH) [3]	9,784	10,070	10,425	16,698	11,673		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	401.00	5,458.00					
AVERAGE HEAT CONTENT (BTU/LB)	10,615	8,963					
AVERAGE SULFUR CONTENT (%)	.42	.78					
AVERAGE ASH CONTENT (%)	8.13	21.84					
AVERAGE MOISTURE CONTENT (%)	15.12	11.64					
OIL: CONSUMPTION (1,000 BARRELS)							
AVERAGE HEAT CONTENT (BTU/GAL)							
AVERAGE SULFUR CONTENT (%)							
GAS: CONSUMPTION (1,000 MCF)	22.00	2,004.30	8,183.00	46.00	2,749.00		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	923	1,080	1,083	1,089	1,087		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	5	2	3	2		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS	1	3					
- NO. WITH ELECTROSTATIC PRECIPITATORS		2					
- NO. WITH COMBINATION PRECIPITATORS [4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	15.00	12.50 16.00	7.00	7.00			
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	80.00	85.00					
TESTED, LOW - HIGH		77.73 80.00					
ESTIMATED, LOW - HIGH	80.00	77.00					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		97.00					
TESTED, LOW - HIGH							
EST., LOW - HIGH							
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	5.54	111.83					
SULFUR DIOXIDE (1,000 TONS)	3.30	83.44					
NITROGEN OXIDES (1,000 TONS)	3.61	49.51	1.60	.01	.54		
STACKS: - TOTAL NO.	1	4	4	3	1		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	250.00	250.00 300.00	178.00	103.00 135.00	160.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
TOTAL ASH: COLLECTED (1,000 TONS) [10]	2.77	1,160.59					
SOLD (1,000 TONS) [11]							
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	72.10	359.70					
ELECTROSTATIC PRECIPITATORS ($1,000)		8,344.00					
COMBINATION PRECIPITATORS ($1,000) [4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	174.00	339.40	186.00		106.40		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	8.20						
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	10.20	1,941.00					
TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	R SAN JUAN	W	W	W		
AVERAGE RATE OF WITHDRAWAL (CFS)	4.95	29.70	2.70	.22	1.26		
AVERAGE RATE OF DISCHARGE (CFS)		5.70			.52		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	4.95	24.00	2.70	.22	1.26		
PEAK LOAD MONTH : SUMMER - WINTER [15]							
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER							
AT OUTFALL, SUMMER - WINTER							
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER							
- WINTER							
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]				O			
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.09	.85	10.00		3.17 .15		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	37.35	264.61	59.00		21.99		
LIME (TONS), COOLING WATER - BOILER MAKEUP		73.69					
ALUM (TONS), COOLING WATER - BOILER MAKEUP		14.60					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	8.70	54.00	12.00	1.00	5.64		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES YES		YES YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST	ST		
RECEIVING WATER BODY							
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	8.00	12.00					
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
- ASH SETTLING		147,000.00					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)							
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)	1 115.00	4 1,330.00					
COOLING TOWER(S)			2 220.00	3 116.00	2 200.00		
COMBINATION [20]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1962	1963	1965		1954 1955		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	18.31	16.13 20.00	19.20		22.60		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	62.00	1,556.40	25.80		312.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)							

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)							
COOLING PONDS ($1,000)	730.00	11,230.00					
COOLING TOWERS ($1,000)			757.50		414.90		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.00		11.00		16.00		
COST OF CHEMICAL ADDITIVES ($1,000)	1.45	8.94	20.50	.15	5.60		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.00		2.00		24.00		
COST OF CHEMICAL ADDITIVES ($1,000)	4.94	80.80	5.20	.98	2.72		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	ARIZONA PUBLIC SERVICE CO.	ARKANSAS ELECTRIC COOP CORP.	APKANSAS ELECTPIC COOP CORP.	ARKANSAS POWER & LIGHT CO.	ARKANSAS POWER & LIGHT CO.	
NAME OF PLANT	YUCCA	FITZHUGH	BAILEY	LYNCH	MOSES	
UTILITY-PLANT CODE	017000-0900	017500-0100	017500-0200	018500-0200	018500-0300	
STATE	ARIZONA	ARKANSAS	ARKANSAS	ARKANSAS	ARKANSAS	
COUNTY	YUMA	FRANKLIN	WOODRUFF	PULASKI	ST. FRANCIS	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	013 15	021 11	020 11	016 11	020 08	
PLANT CAPACITY (MW)	75.00	59.84	120.00	259.75	138.60	
ANNUAL GENERATION (MWH) [3]	118,800	195,500	503,400	606,500	642,500	
PLANT HEAT RATE (BTU/KWH) [3]	13,688	11,258	10,543	12,831	12,178	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)		14.00	16.00	112.60	142.80	
AVERAGE HEAT CONTENT (BTU/GAL)		150,000	152,826	150,000	150,000	
AVERAGE SULFUR CONTENT (%)		1.55	1.55	2.00	2.00	
GAS: CONSUMPTION (1,000 MCF)	1,537.00	2,069.54	5,093.41	6,916.99	6,889.40	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,058	1,022	1,022	1,023	1,007	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	1	1	3	2	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	7.00	7.00	8.00	7.00	7.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)				.02	.02	
SULFUR DIOXIDE (1,000 TONS)		.07	.08	.76	.96	
NITROGEN OXIDES (1,000 TONS)	.30	.43	1.03	1.60	1.66	
STACKS: - TOTAL NO.	1	1	1	3	4	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	146.50	179.00	167.00	147.00 150.00	141.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]						
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)						
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		29.00	29.00	72.30	24.80	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	R ARKANSAS	P WHITE	W	RW L'ANGUILLE	
AVERAGE RATE OF WITHDRAWAL (CFS)	.84	55.00	93.00	2.92	2.72	
AVERAGE RATE OF DISCHARGE (CFS)		55.00	93.00	.51	.78	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.84	.47	.80	2.41	1.94	
PEAK LOAD MONTH : SUMMER - WINTER [15]		JUL DEC	JUL DEC		AUG OCT	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		91.00 59.00	76.00 50.00			
AT OUTFALL, SUMMER - WINTER		104.00 76.00	94.00 67.00			
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		29,600.00	17,200.00			
- WINTER		19,500.00	15,300.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.02	.18	.04	1.76 .49	.62	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	10.59		.01			
LIME (TONS), COOLING WATER - BOILER MAKEUP				487.20	43.15	
ALUM (TONS), COOLING WATER - BOILER MAKEUP					209.93	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	3.73			20.58	23.89	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES	YES	YES YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST	ST	
RECEIVING WATER BODY		R ARKANSAS				
POND DISCHARGE [18]: PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		1 59.84	1 120.00			
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)	1 75.00			3 259.00	2 138.00	
COMBINATION [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1959	1962	1966	1947 1954	1951	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	20.00	14.00	20.70	16.50 18.00	18.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	86.00	91.35	116.00	367.00	218.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		91.40	116.00			

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		630.00	897.00			
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	676.00			773.70	464.50	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.00		3.00	27.40	44.30	
COST OF CHEMICAL ADDITIVES ($1,000)	3.51			27.70	18.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	25.00	2.20	4.00	11.30	2.80	
COST OF CHEMICAL ADDITIVES ($1,000)	1.55	.40	2.00	3.50	11.90	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	ARKANSAS POWER & LIGHT CO.		ARKANSAS POWER & LIGHT CO.		ARKANSAS POWER & LIGHT CO.		ASSOCIATED ELEC. COOP INC.		ATLANTIC CITY ELECTRIC CO.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	COUCH		LAKE CATHERINE		RITCHIE		HILL		ENGLAND		4
5	UTILITY-PLANT CODE	5	018500-0400		018500-0500		018500-0600		021000-0100		022000-0100		5
6	STATE	6	ARKANSAS		ARKANSAS		ARKANSAS		MISSOURI		NEW JERSEY		6
7	COUNTY	7	LAFAYETTE		HOT SPRING		PHILLIPS		RANDOLPH		CAPE MAY		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	022 11		016 08		020 08		137 10		150 02		8
9	PLANT CAPACITY (MW)	9	187.50		757.00		903.64		470.00		299.20		9
10	ANNUAL GENERATION (MWH) [3]	10	583,200		3,218,400		5,006,600		2,052,200		1,969,500		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	10,769		10,429		9,773		9,821		9,835		11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12							1,465.36		768.17		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13							9,899		12,959		13
14	AVERAGE SULFUR CONTENT (%)	14							4.46		2.29		14
15	AVERAGE ASH CONTENT (%)	15							14.16		10.18		15
16	AVERAGE MOISTURE CONTENT (%)	16							15.73		3.78		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	23.50		118.70		282.47				2.76		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	149,000		150,000		150,000				139,827		18
19	AVERAGE SULFUR CONTENT (%)	19	2.56		2.00		2.00				.10		19
20	GAS: CONSUMPTION (1,000 MCF)	20	6,946.53		33,354.81		46,078.98						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	988		1,016		1,022						21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	2		4		2		2		2		22
23	- NO. OF WET BOTTOM	23									2		23
24	- NO. WITH FLY ASH REINJECTION	24									2		24
25	- NO. WITH MECHANICAL PRECIPITATORS	25											25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26							2		2		26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27											27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	7.00	7.00	10.00	7.00	10.00		18.00		16.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30											30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32											32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33							93.30	95.00	97.10	98.00	33
34	TESTED, LOW - HIGH	34							95.30	96.50	95.37	95.46	34
35	EST., LOW - HIGH	35							95.30	96.50	93.50	94.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39			.02		.05		.84		.54		39
40	SULFUR DIOXIDE (1,000 TONS)	40	.20		.80		(.90		123.73		34.48		40
41	NITROGEN OXIDES (1,000 TONS)	41	(.41		6.77		9.61		38.92		21.13		41
42	STACKS: - TOTAL NO.	42	3		3		3		2		2		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	147.00 150.00	175.00	(95.50	236.00	450.00		400.00		250.50		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44									.02		44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45							200.00		80.74		45
46	SOLD (1,000 TONS) [11]	46									41.09		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50											50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51							702.00		744.70		51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52											52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	59.20		172.70		463.40		749.00		291.60		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($/,000)	55							150.00				55
56	REVENUES FROM SALE OF ASH ($1,000)	56									16.02		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59							150.00				59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60									16.02		60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	W		L CATHERINE		R MISSISSIPPI		R CHARITON M FK		H GREAT EGG		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1.85		848.50		544.00		535.00		342.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	.78		848.50		544.00		526.00		342.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	1.07	7.30		4.68			9.30	2.94			64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65		AUG	NOV	MAY	JAN		JUL	JAN	SEP	DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66		74.00	62.00	74.00	43.00		86.00	50.00	73.00	48.00	66
67	AT OUTFALL, SUMMER - WINTER	67		88.00	71.00	102.00	79.00		97.00	61.00	88.00	78.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68				695,000.00			535.00				68
69	- WINTER	69				526,000.00			535.00				69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, L [16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	.29		.29		.03		.40		2.15		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72					61.10		91.75		153.52		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73							4.65				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74							3.49				74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	15.07	27.36		10.30			8.00		60.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES YES	YES	YES	YES	YES			YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	ST	ST		ST			OT		ST		77
78	RECEIVING WATER BODY	78							R CHARITON M FK		D LEACHING FIELD		78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	79							6.90		9.80	8.00	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80									5.00	50.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81										1,200.00	81
82	- ASH SETTLING	82							2,680.00			40,000.00	82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83			4 757.00		2 904.00						83
84	ONCE THROUGH COOLING (SALINE)	84									2 299.20		84
85	COOLING POND(S)	85							2 470.00				85
86	COOLING TOWER(S)	86	2 187.00										86
87	COMBINATION [21]	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1943 1954	1949	1970	1961	1967			1966	1962	1963	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	15.00 18.00	12.50	18.40	25.00	30.00		16.85	18.12		10.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	260.00		1,093.00		685.00			534.80		432.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91			1,093.00		685.00					432.00	91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92			(,583.40		5,749.70					1,732.70	92
93	COOLING PONDS ($1,000)	93								2,245.00			93
94	COOLING TOWERS ($1,000)	94	589.00										94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	6.90		4.70		2.14			5.00			95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	6.10				3.39			2.00		7.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	6.30		20.10		24.70			30.00		74.49	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	.30		19.60		30.06			15.00		14.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	ATLANTIC CITY ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.		
NAME OF PLANT	MISSOURI AVENUE	CRANE	GOULD STREET	WAGNER	RIVERSIDE		
UTILITY-PLANT CODE	022000-0300	026500-0100	026500-0200	026500-0300	026500-0500		
STATE	NEW JERSEY	MARYLAND	MARYLAND	MARYLAND	MARYLAND		
COUNTY	ATLANTIC	BALTIMORE	BALTIMORE CITY	ANNE ARUNDEL	BALTIMORE		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	150 02	115 02	115 02	115 02	115 02		
PLANT CAPACITY (MW)	50.00	399.80	173.50	627.80	333.50		
ANNUAL GENERATION (MWH) [3]	342,300	2,697,600	999,700	3,932,200	2,239,900		
PLANT HEAT RATE (BTU/KWH) [3]	12,279	9,578	12,139	9,630	11,761		
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
COAL: CONSUMPTION (1,000 TONS)	150.91	576.26	383.35	1,459.40	50.47		
AVERAGE HEAT CONTENT (BTU/LB)	13,606	13,502	12,668	12,649	12,534		
AVERAGE SULFUR CONTENT (%)	.45	2.52	1.98	2.19	1.75		
AVERAGE ASH CONTENT (%)	6.68	8.39	12.99	12.52	13.07		
AVERAGE MOISTURE CONTENT (%)	4.68	3.06	5.37	4.55	6.79		
OIL: CONSUMPTION (1,000 BARRELS)	1.56	1,659.97	369.59	158.34	4,042.94		
AVERAGE HEAT CONTENT (BTU/GAL)	139,485	147,401	147,549	142,647	147,696		
AVERAGE SULFUR CONTENT (%)	.10	1.54	1.63	.64	1.61		
GAS: CONSUMPTION (1,000 MCF)			130.03				
AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,021				
PLANT EQUIPMENT DATA							
BOILERS: - TOTAL NO.	2	2	3	3	5		
- NO. OF WET BOTTOM		2					
- NO. WITH FLY ASH REINJECTION		2					
- NO. WITH MECHANICAL PRECIPITATORS			2		2		
- NO. WITH ELECTROSTATIC PRECIPITATORS	2	2	1	1	3		
- NO. WITH COMBINATION PRECIPITATORS [4]				2			
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	26.00 28.00	15.00	20.00 25.00	19.00 23.00	14.00 20.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			80.00		65.00		
TESTED, LOW - HIGH			74.20				
ESTIMATED, LOW - HIGH			63.00				
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		95.00	95.00	95.00 99.00	87.00		
TESTED, LOW - HIGH	81.40 87.80	80.00	97.50	95.00 99.00			
EST., LOW - HIGH	81.40 87.80	70.00	95.00	92.00 98.00			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
PLANT OPERATING DATA AND COST OF EQUIPMENT							
EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	1.33	1.64	7.33	6.76	.89		
SULFUR DIOXIDE (1,000 TONS)	1.33	37.04	16.90	62.98	23.57		
NITROGEN OXIDES (1,000 TONS)	1.36	19.51	4.29	13.48	9.37		
STACKS: - TOTAL NO.	2	2	3	3	5		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	216.00	353.00	238.00	286.80 345.50	216.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
TOTAL ASH: COLLECTED (1,000 TONS) [10]	10.07	29.20	47.50	195.80	5.00		
SOLD (1,000 TONS) [11]		29.20		7.70	1.10		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			588.00		699.00		
ELECTROSTATIC PRECIPITATORS ($1,000)	156.60	3,330.00	516.00	983.00	907.00		
COMBINATION PRECIPITATORS ($1,000) [4]				2,603.00			
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	56.00	4,513.00	225.00	1,031.00	520.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	12.58	35.50	102.30	252.80	51.40		
REVENUES FROM SALE OF ASH ($1,000)		20.50	.03	5.50	.80		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	12.58	35.50	102.30	252.80	51.40		
TOTAL BYPRODUCT SALES REVENUES ($1,000)		20.50	.03	5.50	.80		
WATER QUALITY CONTROL DATA							
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O BEACH THRFARE	C SENECA	R PATAPSCO	R PATAPSCO	R PATAPSCO		
AVERAGE RATE OF WITHDRAWAL (CFS)	117.00	636.00	237.00	765.00	486.00		
AVERAGE RATE OF DISCHARGE (CFS)	117.00	636.00	237.00	765.00	486.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.01	5.47	2.04	6.58	4.18		
PEAK LOAD MONTH : SUMMER - WINTER [15]	SEP OEC	JUL NOV	AUG OEC	AUG MAR	AUG OCT		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	71.00 41.00	84.00 57.00	84.00 51.00	84.00 50.00	85.00 74.00		
AT OUTFALL, SUMMER - WINTER	80.00 52.00	99.00 70.00	99.00 71.00	100.00 67.00	102.00 92.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		TIDAL	TIDAL	TIDAL	TIDAL		
- WINTER		TIDAL	TIDAL	TIDAL	TIDAL		
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, CI [16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.35						
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	9.57		.03				
LIME (TONS), COOLING WATER - BOILER MAKEUP	2.06						
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	15.00		97.00	202.50	136.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	PS	SW	PS	PS		
RECEIVING WATER BODY			R PATAPSCO				
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING [19]	7.90 7.90	6.80	6.80	6.80	6.80		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		52.00	2,092.00	62.00	129.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	22.50						
- ASH SETTLING	21,442.81	23,200.00	62,700.00	13,300.00	2,000.00		
COOLING FACILITY DATA							
NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)							
ONCE THROUGH COOLING (SALINE)	2 58.50	2 400.00	3 173.00	3 627.00	5 333.00		
COOLING PONDS							
COOLING TOWERS							
COMBINATION [21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1941 1946	1961 1962	1927 1952	1956 1966	1942 1953		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	10.00	11.30	15.00	12.00 15.00	15.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	142.00	694.00	330.00	834.00	573.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	142.00	694.00	330.00	834.00	573.00		
CAPITAL COSTS OF COOLING FACILITIES							
ONCE THROUGH COOLING SYSTEMS ($1,000)	488.10	3,364.00	927.00	4,775.00	2,616.00		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)							
ANNUAL COOLING WATER EXPENSES							
OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.50	25.30	9.80	63.30	56.50		
COST OF CHEMICAL ADDITIVES ($1,000)	1.50		7.80	16.40	11.00		
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
OPERATION AND MAINTENANCE EXPENSES ($1,000)	69.92	10.60	7.30	9.10	13.60		
COST OF CHEMICAL ADDITIVES ($1,000)	2.90	2.80	1.60	8.70	1.10		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	BALTIMORE GAS & ELECTRIC CO.	BASIN ELECTRIC POWER COOP	BEECH BOTTOM POWER CO.	BIG RIVERS RURAL ELECTRIC COOP	BIG RIVERS RURAL ELECTRIC COOP	1
2							2
3							3
4	NAME OF PLANT	WESTPORT	LELAND OLDS	WINDSOR	COLEMAN	REID	4
5	UTILITY-PLANT CODE	026500-0600	031000-0100	035500-0100	041000-0050	041000-0100	5
6	STATE	MARYLAND	NORTH DAKOTA	WEST VIRGINIA	KENTUCKY	KENTUCKY	6
7	COUNTY	BALTIMORE CITY	MERCER	BROOKE	HANCOCK	HENDERSON	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	115 02	172 10	181 05	077 05	077 05	8
9	PLANT CAPACITY (MW)	194.60	240.00	300.00	170.00	80.00	9
10	ANNUAL GENERATION (MWH) [3]	1,078,900	1,542,400	899,700	1,279,200	514,100	10
11	PLANT HEAT RATE (BTU/KWH) [3]	13,472	11,238	15,867	9,997	11,263	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	110.37	1,298.00	608.90	582.43	261.98	12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,725	6,659	11,641	10,868	11,051	13
14	AVERAGE SULFUR CONTENT (%)	1.92	.75	3.24	3.93	4.18	14
15	AVERAGE ASH CONTENT (%)	12.38	7.56	15.67	12.55	13.09	15
16	AVERAGE MOISTURE CONTENT (%)	5.86	37.81	4.81	10.81	9.68	16
17	OIL: CONSUMPTION (1,000 BARRELS)	1,888.35	4.00				17
18	AVERAGE HEAT CONTENT (BTU/GAL)	147,844	140,000				18
19	AVERAGE SULFUR CONTENT (%)	1.63	.10				19
20	GAS: CONSUMPTION (1,000 MCF)				132.20		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,000		21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	4	1	4	2	1	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS		1	4		1	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	3			2		26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	1					27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	14.00 20.00	24.00	20.00	18.00	22.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00			85.00	30
31	TESTED, LOW - HIGH		85.50				31
32	ESTIMATED, LOW - HIGH		85.00	77.00		85.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	82.00 87.00			99.00		33
34	TESTED, LOW - HIGH	79.00 93.00					34
35	EST., LOW - HIGH	77.00 93.00			99.50		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	1.16	12.51	18.65	.31	4.37	39
40	SULFUR OIOXIDE (1,000 TONS)	13.70	19.08	38.67	44.81	21.46	40
41	NITROGEN OXIDES (1,000 TONS)	4.97	11.69	5.48	5.26	2.36	41
42	STACKS: - TOTAL NO.	3	1	2	2	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	220.00	250.00	272.00	350.00	250.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	10.30	87.70	86.40	72.73	34.26	45
46	SOLD (1,000 TONS) [11]	.50	7.00				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		145.00			25.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	368.00			1,177.60		51
52	COMBINATION PRECIPITATORS ($1,000) [4]	432.00					52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	154.00	172.00		644.00	125.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	62.60	55.80	31.50	39.30	22.30	55
56	REVENUES FROM SALE OF ASH ($1,000)	.30	28.40				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	62.60	97.40	31.50	39.30	22.30	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	.30	28.40				60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R PATAPSCO	R MISSOURI	R OHIO	R OHIO	R GREEN	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	353.00	162.64	1,025.00	351.00	1,494.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	353.00	162.64	1,025.00	351.00	1,425.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.04	1.40 .05		3.02	12.85	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL JAN	JUN JAN	AUG DEC	AUG DEC	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 43.00	58.00 40.00	88.00 45.00	86.00 54.00	85.00 41.00	66
67	AT OUTFALL, SUMMER - WINTER	100.00 60.00	88.00 62.00	100.00 60.00	106.00 68.00	101.00 57.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	TIDAL	26,800.00	8,700.00			68
69	- WINTER	TIDAL	26,300.00	8,700.00		1,494.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]				C		70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.20	.75	.50	.50	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP			327.47	25.00	.01	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		32.00			.08	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		.20			.05	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	72.00		12.00 .30	4.00	1.45	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	ST	ST	ST	ST	77
78	RECEIVING WATER BODY		R MISSOURI	R OHIO			78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	6.80	9.20 9.80		9.50	9.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	734.00	15.00				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING	3,900.00	125,000.00		45,195.00		82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		1 240.00	2 120.00	2 326.00	1 80.00	83
84	ONCE THROUGH COOLING (SALINE)	3 194.00					84
85	COOLING PONDS)						85
86	COOLING TOWERS)						86
87	COMBINATIONS [21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1924 1950	1965	1939 1941	1969 1970	1965	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00	27.00		18.00	16.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	413.00	162.64		468.00	172.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	413.00	167.10	737.00	351.00	172.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,252.00	999.00		1,707.50	1,073.25	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	31.00	7.30	60.30		6.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	5.80		1.40	1.50	1.10	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.50	18.40	3.90		6.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.40	10.50	36.10	4.10	.50	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	BLACKSTONE VALLEY ELECTRIC CO.	BOSTON EDISON CO.	BOSTON EDISON CO.	BOSTON EDISON CO.	BOSTON EDISON CO.		
NAME OF PLANT	PAWTUCKET	EDGAR	L STREET	MYSTIC	NEW BOSTON		
UTILITY-PLANT CODE	043000-0200	048500-0100	048500-0200	04850C-0300	048500-0400		
STATE	RHODE ISLAND	MASSACHUSETTS	MASSACHUSETTS	MASSACHUSETTS	MASSACHUSETTS		
COUNTY	PROVIDENCE	NORFOLK	SUFFOLK	MIDDLESEX	SUFFOLK		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	120 01	119 01	119 01	119 01	119 01		
PLANT CAPACITY (MW)	28.00	457.86	153.75	618.75	717.74		
ANNUAL GENERATION (MWH) [3]	25,400	1,555,200	349,200	3,093,600	4,149,700		
PLANT HEAT RATE (BTU/KWH) [3]		12,523	18,754	10,744	9,252		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)							
AVERAGE HEAT CONTENT (BTU/LB)							
AVERAGE SULFUR CONTENT (%)							
AVERAGE ASH CONTENT (%)							
AVERAGE MOISTURE CONTENT (%)							
OIL: CONSUMPTION (1,000 BARRELS)	163.10	3,122.00	1,050.00	5,336.00	6,155.00		
AVERAGE HEAT CONTENT (BTU/GAL)	148,597	148,481	148,417	148,166	148,475		
AVERAGE SULFUR CONTENT (%)	2.50	2.13	1.84	1.91	1.94		
GAS: CONSUMPTION (1,000 MCF)	109.60						
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,046						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	13	11	9	6	2		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS							
- NO. WITH ELECTROSTATIC PRECIPITATORS		7	9	6			
- NO. WITH COMBINATION PRECIPITATORS [4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	20.00	24.00	20.00 29.00	13.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		90.00 95.00	80.00 90.00	95.00			
TESTED, LOW - HIGH							
EST., LOW - HIGH		5.00		5.00			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.03	.50	.02	.85	1.63		
SULFUR OIDXIDE (1,000 TONS)	1.38	22.31	6.48	34.19	40.06		
NITROGEN OXIDES (1,000 TONS)	.39	6.88	2.31	11.77	13.57		
STACKS: - TOTAL NO.	2	5	3	5	4		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	238.00	250.00	266.00	260.00 335.00	250.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]				.53			
TOTAL ASH: COLLECTED (1,000 TONS) [10]		.20					
SOLD (1,000 TONS) [11]			288.50	63.20	245.20		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)		768.40	585.80	1,595.00			
COMBINATION PRECIPITATORS ($1,000) [4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	25.80	192.09	67.51	971.58	256.40		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		13.50	.58	53.00	71.00		
REVENUES FROM SALE OF ASH ($1,000)			12.98	6.32	12.15		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		2,122.50	713.80	3,627.70	4,184.50		
TOTAL BYPRODUCT SALES REVENUES ($1,000)			12.98	6.32	12.15		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R PAWTUCKET	R WEYMOUTH FORE	M BOSTON	R MYSTIC	M BOSTON		
AVERAGE RATE OF WITHDRAWAL (CFS)	83.55	498.20	82.40	704.90	567.00		
AVERAGE RATE OF DISCHARGE (CFS)	99.70	498.20	82.40	704.90	567.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.72	4.28	.71		4.88		
PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 48.00	68.00 47.00	75.00 42.00	75.00 46.00	75.00 42.00		
AT OUTFALL, SUMMER - WINTER	100.00 68.00	92.00 61.00	91.00 58.00	92.00 63.00	91.00 58.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	96.00	TIDAL BASIN	TIDAL BASIN	TIDAL BASIN	TIDAL BASIN		
- WINTER	96.00	TIDAL BASIN	TIDAL BASIN	TIDAL BASIN	TIDAL BASIN		
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, CT [16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	7.45	9.00	1.00	3.60	5.00		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	10.38	266.12	56.50	147.84	339.00		
LIME (TONS), COOLING WATER - BOILER MAKEUP							
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP							
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]		YES YES	YES YES	YES YES	YES YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, CT [18]	PS	PS	RS	PS	PS		
RECEIVING WATER BODY							
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING							
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
- ASH SETTLING							

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)							
ONCE THROUGH COOLING (SALINE)	3 36.50	9 404.61	5 155.00		2 760.00		
COOLING POND(S)							
COOLING TOWER(S)							
COMBINATION [21]				6 537.50			
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1913	1925 1954	1919 1921	1943 1961	1965 1967		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	20.00	9.60 14.60	22.80	14.30 19.10	15.80 16.20		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	95.00	889.00	200.40	802.30	757.50		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	160.00	750.00	178.00	705.00	1,348.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	71.00	3,299.53		2,172.05	1,476.90		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)				109.24			

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	13.30	69.00	52.00	106.00	53.00		
COST OF CHEMICAL ADDITIVES ($1,000)		7.00	2.00	12.00	14.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	13.00	115.00	90.00	105.00	49.00		
COST OF CHEMICAL ADDITIVES ($1,000)	5.70	18.00	6.00	30.00	35.00		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	BRAZOS ELECTRIC POWER COOP INC.	BRAZOS ELECTRIC POWER COOP INC.	BURBANK PUBLIC SERVICE DEPT	CAMBRIDGE ELEC. LIGHT CO.	CAROINAL OPERATING CO.		
NAME OF PLANT	NORTH TEXAS	MILLER	BURBANK	KENDALL SQUARE	CAROINAL		
UTILITY-PLANT CODE	052000-0100	052000-0200	059000-0100	065000-0200	070000-0100		
STATE	TEXAS	TEXAS	CALIFORNIA	MASSACHUSETTS	OHIO		
COUNTY	PARKER	PALO PINTO	LOS ANGELES	MIDDLESEX	JEFFERSON		
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	215 12	215 12	024 18	119 01	181 05		
PLANT CAPACITY (MW)	75.00	T5.00	18T.00	67.45	1,180.00		
ANNUAL GENERATION (MWH) 3/	273,300	566,600	164,100	361,300	T,623,400		
PLANT HEAT RATE (BTU/KWH) 3/	12,310	10,T00	10,46T	9,363	9,087		
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
COAL: CONSUMPTION (1,000 TONS)					3,020.10		
AVERAGE HEAT CONTENT (BTU/LB)					11,349		
AVERAGE SULFUR CONTENT (%)					2.98		
AVERAGE ASH CONTENT (%)					14.T3		
AVERAGE MOISTURE CONTENT (%)					7.2T		
OIL: CONSUMPTION (1,000 BARRELS)		.33	366.60	T25.00			
AVERAGE HEAT CONTENT (BTU/GAL)		138,439	148,590	149,03T			
AVERAGE SULFUR CONTENT (%)		.10	.35	1.81			
GAS: CONSUMPTION (1,000 MCF)	3,063.00	5,789.T0	5,654.00	1,196.00			
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,100	1,051	1,056	1,000			
PLANT EQUIPMENT DATA							
BOILERS: - TOTAL NO.	3	1	7	3	2		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS			6				
- NO. WITH ELECTROSTATIC PRECIPITATORS				3	2		
- NO. WITH COMBINATION PRECIPITATORS 4/							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/		8.00 12.60 15.00		20.00	20.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH			23.00 40.00				
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH					95.00		
TESTED, LOW - HIGH							
EST., LOW - HIGH				5.00			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
PLANT OPERATING DATA AND COST OF EQUIPMENT							
EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)			.05	.12	18.91		
SULFUR OIOX(OE (1,000 TONS)			.43	4.4C	176.40		
NITROGEN OXIDES (1,000 TONS)	.60	1.13	1.90	1.83	27.18		
STACKS: - TOTAL NO.	3	1	6	2	2		
- HEIGHT (FEET), LOWEST - HIGHEST 8/	68.00 79.50	66.00	66.00 150.00	IT5.00	825.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/				.04			
TOTAL ASH: COLLECTED (1,000 TONS) 10/				.05	434.90		
SOLD (1,000 TONS) 11/				.05	35.60		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			81.00				
ELECTROSTATIC PRECIPITATORS ($1,000)					2,T02.00		
COMBINATION PRECIPITATORS ($1,000) 4/							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	31.90	18.00	114.00	44.00	3,142.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)				1.60	124.10		
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/				1.60	124.10		
TOTAL BYPRODUCT SALES REVENUES ($1,000)				1.60			
WATER QUALITY CONTROL DATA							
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L WEATHERFORD	L PALO PINTO	M	R CHARLES	R OHIO		
AVERAGE RATE OF WITHDRAWAL (CFS)	48.05	110.00	2.90	110.00	1,T82.00		
AVERAGE RATE OF DISCHARGE (CFS)	48.05	110.00	1.20	110.00	1,782.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.41	.95	1.70	.95	15.33		
PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG OEC	JUL OEC	AUG OEC	JUL JAN	AUG OEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	8T.00 58.00	90.00 64.00	78.00 T0.00	95.00 52.00	87.00 4T.00		
AT OUTFALL, SUMMER - WINTER	102.00 T7.40	104.00 83.00	80.00 T2.00	95.00 52.00	98.00 59.60		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		130.10		100.00	8,000.00		
- WINTER		115.T0		200.00	8,000.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.10	.13	.02 .11	.50			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	4.55	12.24	74.85	50.00	25.00		
LIME (TONS), COOLING WATER - BOILER MAKEUP	1.83	T.45		2.25			
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		.28	39.00	1.50	90.00 1.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	ST	PS	PS	OT		
RECEIVING WATER BODY					R OHIO		
POND DISCHARGE? 19/ PH, BOILER BLOWDOWN - ASH SETTLING	9.60	9.80			8.00		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					5.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	216.00	287.31					
- ASH SETTLING							
COOLING FACILITY DATA							
NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	3 T5.00	1 T5.00		3 T5.00	2 1,180.00		
ONCE THROUGH COOLING (SALINE)							
COOLING PONDS)							
COOLING TOWERS)			6 169.00				
COMBINATION S 21/							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958 1963	1968	1949 1964	1949 1957	1967		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	15.00	15.50	16.00	15.00	12.60		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	142.40	133.70	299.30	121.00	1,617.40		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	133.00	133.T0		110.00	1,782.00		
CAPITAL COSTS OF COOLING FACILITIES							
ONCE THROUGH COOLING SYSTEMS ($1,000)	399.60	586.00		100.00	2,307.00		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)							
ANNUAL COOLING WATER EXPENSES							
OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.10	1.00	31.30	11.00	2.30		
COST OF CHEMICAL ADDITIVES ($1,000)			29.73	.40	7.50		
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.70	16.70	9.51	90.00	7.30		
COST OF CHEMICAL ADDITIVES ($1,000)	1.90	3.40	5.26	10.00	3.80		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.		
NAME OF PLANT	ASHEVILLE	CAPE FEAR	ROBINSON	LEE	ROXBORO		
UTILITY-PLANT CODE	072000-0100	072000-0300	072000-0400	072000-0500	072000-0900		
STATE	NORTH CAROLINA	NORTH CAROLINA	SOUTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA		
COUNTY	BUNCOMBE	CHATHAM	DARLINGTON	WAYNE	PERSON		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	171 06	166 03	201 03	170 03	166 03		
PLANT CAPACITY (MW)	206.64	420.98	206.60	402.45	1,067.85		
ANNUAL GENERATION (MWH) [3]	1,335,600	2,392,700	1,026,600	2,696,400	6,379,200		
PLANT HEAT RATE (BTU/KWH) [3]	9,265	10,053	9,874	9,979	9,301		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	527.40	964.40	297.70	999.90	2,407.60	
AVERAGE HEAT CONTENT (BTU/LB)	11,704	12,259	12,723	12,644	12,252	
AVERAGE SULFUR CONTENT (%)	1.20	1.45	1.20	1.10	1.50	
AVERAGE ASH CONTENT (%)	13.45	11.67	10.47	10.00	14.58	
AVERAGE MOISTURE CONTENT (%)	6.90	5.66	5.28	5.40	5.67	
OIL: CONSUMPTION (1,000 BARRELS)	4.96	8.99	32.20	32.80	48.23	
AVERAGE HEAT CONTENT (BTU/GAL)	137,500	137,500	137,500	137,500	137,500	
AVERAGE SULFUR CONTENT (%)	.08	.08	.08	.08	.08	
GAS: CONSUMPTION (1,000 MCF)			2,287.80	1,377.30		
AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,043	1,041		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	10	1	3	2	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS		4	1	3	2	
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS [4]	1					
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	20.00 40.00	20.00	20.00 25.00	20.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00	85.00	85.00	85.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH		70.00 80.00	80.00	80.00	80.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	95.00					
TESTED, LOW - HIGH	96.70					
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	1.99	18.70	5.30	17.00	59.85	
SULFUR DIOXIDE (1,000 TONS)	12.41	26.16	7.01	21.57	71.01	
NITROGEN OXIDES (1,000 TONS)	4.76	8.30	3.19	9.34	21.84	
STACKS: - TOTAL NO.	1	4	1	2	2	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	392.00	148.00 275.00	250.00	200.00 300.00	399.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	68.00	95.60	26.20	84.00	293.00	
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		200.80	89.60	222.80	370.70	
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) [4]	508.00					
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	210.20	168.10	105.60	200.60	541.40	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	65.00	144.00	120.00	103.00	311.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	65.00	144.00	120.00	103.00	311.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R FRENCH BROAD		R CAPE FEAR		C BLACK		R NEUSE		C HYCO		
AVERAGE RATE OF WITHDRAWAL (CFS)			400.00		188.00		598.00		900.00		
AVERAGE RATE OF DISCHARGE (CFS)			400.00		188.00		598.00		900.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]											
PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG	JAN	AUG	JAN	AUG	JAN	AUG	JAN	AUG	JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00	47.00	85.00	48.00	82.00	46.00	84.00	49.00	89.00	56.00	
AT OUTFALL, SUMMER - WINTER	103.00	66.00	101.00	59.00	98.00	71.00	97.00	58.00	100.00	58.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		886.00		2,602.00		220.00		897.00		71.00	
- WINTER		1,502.00		1,706.00		246.00		1,507.00		58.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]											
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.40		2.25		1.68		4.70		2.00	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP						.05					
LIME (TONS), COOLING WATER - BOILER MAKEUP											
ALUM (TONS), COOLING WATER - BOILER MAKEUP				32.50				22.50		5.00	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP				2.20			31.00	3.15	4.00	1.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	YES		YES		YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS		ST		L ROBINSON		P NEUSE		ST		
RECEIVING WATER BODY			R CAPE FEAR						L ROXBORO		
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING		8.00		8.40		7.00		9.70		8.50	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		10.00		75.00		40.00		50.00		40.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN											
- ASH SETTLING		30,000.00		40,000.00		20,000.00		30,000.00		80,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)			4	92.60								
ONCE THROUGH COOLING (SALINE)												
COOLING POND(S)	1	206.64			1	206.64			2	1,067.85		
COOLING TOWER(S)												
COMBINATION [21]			2	328.48			3	402.45				
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM		1963	1923	1958		1960	1951	1962		1965		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]		17.00	15.00	21.00		22.40	17.00	23.00	25.40	25.50		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		200.00		598.00		180.00		612.00		870.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)				598.00				612.00				

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		1,985.50		1,976.40		
COOLING PONDS ($1,000)	1,366.00		4,800.00	1,308.00	5,653.30	
COOLING TOWERS ($1,000)		65.00		36.50		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	22.10	76.70	26.30	115.50	78.80	
COST OF CHEMICAL ADDITIVES ($1,000)	2.70		1.30	4.00	.50	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	4.20	16.30	4.20	14.70	13.70	
COST OF CHEMICAL ADDITIVES ($1,000)	.50	6.00	.94	3.70	2.10	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	CENTRAL HUDSON GAS & ELECTRIC CO.	CENTRAL ILLINOIS P.S. CO.	CENTRAL ILLINOIS P.S. CO.	
4	NAME OF PLANT	SUTTON	WEATHERSPOON	DANSKAMMER	COFFEEN	GRAND TOWER	
5	UTILITY-PLANT CODE	072000-1000	072000-1300	077000-0100	078500-0100	078500-0200	
6	STATE	NORTH CAROLINA	NORTH CAROLINA	NEW YORK	ILLINOIS	ILLINOIS	
7	COUNTY	NEW HANOVER	ROBESON	ORANGE	MONTGOMERY	JACKSON	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	170 03	169 03	161 02	075 07	074 07	
9	PLANT CAPACITY (MW)	225.00	165.50	531.91	388.96	232.64	
10	ANNUAL GENERATION (MWH) 3/	1,453,500	1,026,500	2,677,800	1,748,400	987,200	
11	PLANT HEAT RATE (BTU/KWH) 3/	10,617	11,081	10,217	10,378	10,670	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	462.60	263.70	767.00	966.90	495.60	
13	AVERAGE HEAT CONTENT (BTU/LB)	11,926	12,884	11,219	9,375	10,603	
14	AVERAGE SULFUR CONTENT (%)	1.80	.95	2.16	4.64	2.95	
15	AVERAGE ASH CONTENT (%)	14.36	9.20	18.59	20.32	17.79	
16	AVERAGE MOISTURE CONTENT (%)	6.21	5.10	6.24	14.92	10.84	
17	OIL: CONSUMPTION (1,000 BARRELS)	16.30	7.70	1,059.00	2.90	4.00	
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,500	137,500	148,375	137,800	137,504	
19	AVERAGE SULFUR CONTENT (%)	.08	.08	1.84	.37	.45	
20	GAS: CONSUMPTION (1,000 MCF)	4,135.00	4,387.60	3,439.00			
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,041	1,041	1,021			

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	3		1	9			
23	- NO. OF WET BOTTOM	2			1				
24	- NO. WITH FLY ASH REINJECTION				1				
25	- NO. WITH MECHANICAL PRECIPITATORS	2	3						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			4		3			
27	- NO. WITH COMBINATION PRECIPITATORS 4/								
28	- NO. WITH DESULFURIZATION SYSTEMS								
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	23.00 24.00	20.00	5.00 15.00	16.00	25.00 30.00			
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00 86.00	85.00						
31	TESTED, LOW - HIGH								
32	ESTIMATED, LOW - HIGH	80.00	80.00						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH			98.00		97.10			
34	TESTED, LOW - HIGH			98.00 98.70					
35	EST., LOW - HIGH			98.00		97.10 98.50			
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH								
37	TESTED, LOW - HIGH								
38	ESTIMATED, LOW - HIGH								

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	8.64	4.13	2.43	19.65	2.70			
40	SULFUR OIOXIDE (1,000 TONS)	16.32	4.92	39.01	87.94	28.67			
41	NITROGEN OXIDES (1,000 TONS)	7.78	3.25	9.91	26.60	4.46			
42	STACKS: - TOTAL NO.	1	2	4	1	5			
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	200.00	200.00	220.00 240.00	350.00	155.00 301.00			
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/			15.80					
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	56.40	20.10	142.40	112.50	40.90			
46	SOLD (1,000 TONS) 11/								
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)								
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/								
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)								
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	139.50	90.60						
51	ELECTROSTATIC PRECIPITATORS ($1,000)			2,973.00		2,239.00			
52	COMBINATION PRECIPITATORS ($1,000) 4/								
53	DESULFURIZATION SYSTEMS ($1,000)								
54	STACKS ($1,000)	91.50	78.40	516.00	246.00	89.00			
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	37.00	64.00	61.00	31.80	36.70			
56	REVENUES FROM SALE OF ASH ($1,000)								
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)								
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)								
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	37.00	64.00	73.00	31.80	36.70			
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)								

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CAPE FEAR	R LUMBER	P HUDSON	L COFFEEN	P MISSISSIPPI			
62	AVERAGE RATE OF WITHDRAWAL (CFS)	202.00	187.00	500.00		336.00			
63	AVERAGE RATE OF DISCHARGE (CFS)	202.00	187.00	500.00		336.00			
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	1.74		4.30		2.89			
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG JAN	AUG JAN	JUL DEC	JUL NOV	JUL NOV			
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 45.00	79.00 37.00	79.00 47.00		85.00 43.00			
67	AT OUTFALL, SUMMER - WINTER	96.00 68.00	83.00 40.00	94.00 62.00		100.00 57.00			
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	5,640.00	714.00			146,000.00			
69	- WINTER	4,805.00	895.00			93,500.00			
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C 16/								
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.17	3.32	.80		.30			
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP			57.70	192.47	44.80			
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				25.35	10.00 35.00			
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			11.25	3.45	20.00			
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.60			56.00				
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES YES	YES YES	YES YES	YES YES			
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST		OT	OT	OT			
78	RECEIVING WATER BODY			R HUDSON	L COFFEEN	R MISSISSIPPI			
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	8.00	7.50	7.00	7.50	9.80 8.50			
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	65.00	50.00		10.00	39.00			
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					11,500.00			
82	- ASH SETTLING	30,000.00	10,000.00	156,000.00	76,000.00	33,000.00			

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	2 225.00		4 531.91		4 232.60			
84	ONCE THROUGH COOLING (SALINE)								
85	COOLING PONDS(S)				1 388.96				
86	COOLING TOWERS(S)								
87	COMBINATIONS 21/		3 165.50						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1954 1955	1949 1952	1951 1967	1965	1924 1958			
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	19.60	14.00 16.70	14.03 14.99	19.00	8.60 15.15			
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	270.00	269.00	686.00	325.00	511.00			
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	271.40	297.90	686.00		492.00			

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	807.20	1,050.30	3,603.00		1,705.00			
93	COOLING PONDS ($1,000)		475.50		1,790.00				
94	COOLING TOWERS ($1,000)								

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	36.80	42.00	75.00	4.10	65.50			
96	COST OF CHEMICAL ADDITIVES ($1,000)	.10	10.30	12.40	5.20	.60			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	5.30	7.40	225.00	40.60	20.80			
98	COST OF CHEMICAL ADDITIVES ($1,000)	.30	2.30	18.00	18.80	7.20			

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	CENTRAL ILLINOIS P.S. CO.	CENTRAL ILLINOIS P.S. CO.	CENTRAL ILLINOIS LIGHT CO.	CENTRAL ILLINOIS LIGHT CO.	CENTRAL ILLINOIS LIGHT CO.	
4	NAME OF PLANT	HUTSONVILLE	MEREDOSIA	EDWARDS	KEYSTONE	WALLACE	
5	UTILITY-PLANT CODE	078500-0300	078500-0400	079000-0100	079000-0200	079000-0400	
6	STATE	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	
7	COUNTY	CRAWFORD	MORGAN	PEORIA	PEORIA	TAZEWELL	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	074 05	075 07	065 07	065 07	065 07	
9	PLANT CAPACITY (MW)	212.50	354.36	386.02	54.40	349.40	
10	ANNUAL GENERATION (MWH) [3]	1,060,700	1,519,700	2,295,300	119,900	1,218,100	
11	PLANT HEAT RATE (BTU/KWH) [3]	10,833	10,108	9,644	14,883	12,162	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	505.80	692.00	1,042.89	136.67	555.00	
13	AVERAGE HEAT CONTENT (BTU/LB)	11,310	11,029	10,606	11,013	10,847	
14	AVERAGE SULFUR CONTENT (%)	2.48	3.58	2.49	2.60	2.74	
15	AVERAGE ASH CONTENT (%)	11.67	9.57	7.83	6.30	7.40	
16	AVERAGE MOISTURE CONTENT (%)	12.37	14.90	17.65	16.21	16.79	
17	OIL: CONSUMPTION (1,000 BARRELS)	8.70	16.50	2.60		.17	
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,862	138,090	137,600		137,600	
19	AVERAGE SULFUR CONTENT (%)	.25	.40	.10		.10	
20	GAS: CONSUMPTION (1,000 MCF)					2,772.78	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,000	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6	5	2	4	10	
23	- NO. OF WET BOTTOM			2			
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS				4	2	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		1	2		4	
27	- NO. WITH COMBINATION PRECIPITATORS [4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	22.00 25.00	25.00	20.00	25.00	20.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				60.00	60.00	
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH				80.00	85.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		97.00	97.00 99.00		95.00 98.00	
34	TESTED, LOW - HIGH		83.90				
35	EST., LOW - HIGH			98.00 99.00		95.00 97.00	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	50.16	22.35	.71	1.12	1.57	
40	SULFUR DIOXIDE (1,000 TONS)	24.59	48.58	50.90	6.96	29.81	
41	NITROGEN OXIDES (1,000 TONS)	4.57	6.26	15.65	1.03	5.54	
42	STACKS: - TOTAL NO.	4	5	1	4	5	
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	197.00	201.70 300.00	503.00	91.00	195.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	8.50	43.10	80.90	7.42	47.73	
46	SOLD (1,000 TONS) [11]					12.84	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					38.00	
51	ELECTROSTATIC PRECIPITATORS ($1,000)		687.00	754.18		436.70	
52	COMBINATION PRECIPITATORS ($1,000) [4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	89.10	110.00	721.52	24.00	42.60	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	32.50	30.90	110.25	29.82	119.39	
56	REVENUES FROM SALE OF ASH ($1,000)					18.74	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	32.50	30.90	110.26	29.82	119.39	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					18.74	

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R WABASH	R ILLINOIS	R ILLINOIS	R ILLINOIS	R ILLINOIS	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	222.00	280.00	344.00	90.00	289.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	222.00	280.00	344.00	90.00	289.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.91	2.41	2.96	.77	2.49	
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL NOV	JUL NOV	JUL DEC	JUL DEC	JUL DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	88.00 46.70	86.00 38.00	82.00 45.00	82.00 39.00	85.00 49.00	
67	AT OUTFALL, SUMMER - WINTER	98.00 58.00	102.00 69.00	99.00 69.00	92.00 54.00	104.00 69.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	6,000.00	14,626.00	10,606.00	10,606.00	10,606.00	
69	- WINTER	11,900.00	16,779.00	11,543.00	11,543.00	11,543.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.05	.70		1.85	.09	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.60	72.70	37.31	62.27	.03	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	16.95	19.25	19.75	79.25	37.85	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		13.80	.13	.91	5.55	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	30.00	62.00	24.00	6.00	70.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	SW	ST	ST	PS	
78	RECEIVING WATER BODY	R WABASH	R ILLINOIS				
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	10.30 7.50	9.30 7.80	10.00 9.20	11.00 8.40	10.00 8.90	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	100.00 124.00	400.00	518.00	5.00 500.00	550.00 579.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	146.40	12,000.00	1,250.00	103.00	191.92	
82	- ASH SETTLING	103,347.00	32,000.00	81,744.38	44.91	97,719.55	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	4 212.50	3 354.40	2 416.00	4 54.35	7 349.30	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING PONDS(S)						
86	COOLING TOWER(S)						
87	COMBINATIONS [21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1940 1954	1948 1960	1960 1968	1918 1956	1925 1958	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	16.40 20.70	9.50 16.00	20.00	15.00	18.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	400.00	605.00	460.82	155.74	641.65	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	400.00	605.00	467.60	155.70	730.35	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	278.10	313.50	2,800.00	640.00	2,355.00	
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	32.20	13.30	27.21	11.81	51.62	
96	COST OF CHEMICAL ADDITIVES ($1,000)	5.40	6.00	2.77	.75	8.11	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	61.80	32.60	64.02	36.11	82.91	
98	COST OF CHEMICAL ADDITIVES ($1,000)	4.80	13.50	12.03	9.10	12.65	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	CENTRAL LOUISIANA ELECTRIC CO.	CENTRAL LOUISIANA ELECTRIC CO.	CENTRAL MAINE PWR CO.	CENTRAL MAINE PWR CO.	CENTRAL OPERATING CO.	
NAME OF PLANT	COUGHLIN	TECHE	MASON	WYMAN	SPORN	
UTILITY-PLANT CODE	080000-0200	080000-1000	080500-1600	080500-2700	081000-0100	
STATE	LOUISIANA	LOUISIANA	MAINE	MAINE	WEST VIRGINIA	
COUNTY	EVANGELINE	ST. MARY	LINCOLN	CUMBERLAND	MASON	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	106 08	106 08	107 01	110 01	103 05	
PLANT CAPACITY (MW)	483.28	79.40	147.00	214.00	1,060.00	
ANNUAL GENERATION (MWH) [3]	2,152,900	536,200	705,900	1,521,300	6,337,500	
PLANT HEAT RATE (BTU/KWH) [3]	10,657	11,299	13,199	10,325	9,217	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						2,686.50
AVERAGE HEAT CONTENT (BTU/LB)						10,919
AVERAGE SULFUR CONTENT (%)						1.74
AVERAGE ASH CONTENT (%)						17.48
AVERAGE MOISTURE CONTENT (%)						7.26
OIL: CONSUMPTION (1,000 BARRELS)	23.23		1,490.00	2,525.00		
AVERAGE HEAT CONTENT (BTU/GAL)	139,000		148,825	148,148		
AVERAGE SULFUR CONTENT (%)	.15		2.01	1.98		
GAS: CONSUMPTION (1,000 MCF)	21,097.91	5,797.06				
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,081	1,045				

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	7		2		7		3		5	
- NO. OF WET BOTTOM					3					
- NO. WITH FLY ASH REINJECTION										
- NO. WITH MECHANICAL PRECIPITATORS					5		3		4	
- NO. WITH ELECTROSTATIC PRECIPITATORS									1	
- NO. WITH COMBINATION PRECIPITATORS [4]					2					
- NO. WITH DESULFURIZATION SYSTEMS										
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	8.00	18.00	8.00	18.00	18.00	10.00	12.00		20.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					86.00		85.00		85.00	
TESTED, LOW - HIGH										
ESTIMATED, LOW - HIGH					85.00		85.00		85.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH					95.00				95.00	
TESTED, LOW - HIGH									75.50	
EST., LOW - HIGH					96.00					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH										
TESTED, LOW - HIGH										
ESTIMATED, LOW - HIGH										

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)					.02		.06		75.79	
SULFUR DIOXIDE (1,000 TONS)	.01				10.05		16.77		91.62	
NITROGEN OXIDES (1,000 TONS)	4.22		1.14		3.29		5.57		24.18	
STACKS: - TOTAL NO.	7		2		7		3		2	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	76.50	119.00	76.60	105.20	126.00	149.00	166.00	194.50	600.00	601.50
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]								.16		
TOTAL ASH: COLLECTED (1,000 TONS) [10]					.15		.30		438.90	
SOLD (1,000 TONS) [11]									.50	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)										
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]										
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)										
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					79.90		180.80			
ELECTROSTATIC PRECIPITATORS ($1,000)										
COMBINATION PRECIPITATORS ($1,000) [4]					187.00					
DESULFURIZATION SYSTEMS ($1,000)										
STACKS ($1,000)					237.90		390.50		1,160.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)									331.80	
REVENUES FROM SALE OF ASH ($1,000)										
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)										
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)										
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]									331.80	
TOTAL BYPRODUCT SALES REVENUES ($1,000)										

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O BAYOU COCODRIE		O CHARNTON CANAL				B CASCO		R OHIO	
AVERAGE RATE OF WITHDRAWAL (CFS)	63.00		77.60		162.30		173.00		1,500.00	
AVERAGE RATE OF DISCHARGE (CFS)	47.00		77.60		162.20		172.90		1,500.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	16.00	.67		1.40	.10	1.49	.10	12.90		
PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG	DEC	AUG	DEC	AUG	DEC	AUG	DEC	AUG	DEC
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	88.00	62.00	88.00	60.00	68.00	49.00	65.00	42.00	85.00	49.00
AT OUTFALL, SUMMER - WINTER	105.00	68.00	104.00	84.00	94.00	72.00	95.00	80.00	96.00	60.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		95.00								14,000.00
- WINTER		260.00								14,000.00
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]										
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	3.65	.20		.06		2.10		1.50		.20
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		32.50		5.00		3.25				
LIME (TONS), COOLING WATER - BOILER MAKEUP										12.00
ALUM (TONS), COOLING WATER - BOILER MAKEUP	16.50									
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	3.30								47.00	1.00
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES		YES	YES	YES	YES	YES		YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT		OT		ST		ST		ST	
RECEIVING WATER BODY	O BAYOU COCODRIE		O CHARNTON CANAL		B SHEEPSCOTT		B CASCO			
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING					65.00		6.80		4.20	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					179.00		240.00		161.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN										
- ASH SETTLING									76,600.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	4	50.00	2	79.40					5	1,105.60
ONCE THROUGH COOLING (SALINE)					5	139.00	3	209.18		
COOLING PONDS	3	433.28								
COOLING TOWERS										
COMBINATION [21]										
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948	1966	1953	1956	1942	1955	1957	1965	1950	1960
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	10.00	22.00	15.00	20.00	13.00	24.00	15.50	20.00	12.20	12.60
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		562.10		104.60		262.10		251.60		1,561.60
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		126.90		104.60		262.10		251.60		1,607.00

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					1,362.50		1,411.20			
COOLING PONDS ($1,000)		500.00								
COOLING TOWERS ($1,000)										

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)									86.00	
COST OF CHEMICAL ADDITIVES ($1,000)		5.40			2.90		4.20		3.50	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)									6.80	
COST OF CHEMICAL ADDITIVES ($1,000)		10.00		4.50		7.90		11.60	6.60	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	CENTRAL P&L CO.		CENTRAL P&L CO.		CENTRAL P&L CO.		CENTRAL P&L CO.		CENTRAL P&L CO.		
4	NAME OF PLANT	BATES		LAREDO		HILL		NUECES BAY		LA PALMA		
5	UTILITY-PLANT CODE	082000-0200		082000-0300		082000-0400		082000-0500		082000-0600		
6	STATE	TEXAS		TEXAS		TEXAS		TEXAS		TEXAS		
7	COUNTY	HIDALGO		WEBB		NUECES		NUECES		CAMERON		
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	213	13	213	13	214	12	214	12	214	13	
9	PLANT CAPACITY (MW)		188.70		72.00		574.20		244.50		230.00	
10	ANNUAL GENERATION (MWH) [3]		787,500		345,200		2,149,100		1,042,300		666,700	
11	PLANT HEAT RATE (BTU/KWH) [3]		11,110		12,700		10,692		10,633		11,458	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)											12
13	AVERAGE HEAT CONTENT (BTU/LB)											13
14	AVERAGE SULFUR CONTENT (%)											14
15	AVERAGE ASH CONTENT (%)											15
16	AVERAGE MOISTURE CONTENT (%)											16
17	OIL: CONSUMPTION (1,000 BARRELS)											17
18	AVERAGE HEAT CONTENT (BTU/GAL)											18
19	AVERAGE SULFUR CONTENT (%)											19
20	GAS: CONSUMPTION (1,000 MCF)		8,455.00		3,934.00		22,529.00		12,099.00		7,262.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,031		1,108		1,020		1,021		1,027	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.		2		2		4		4		7	22
23	- NO. OF WET BOTTOM											23
24	- NO. WITH FLY ASH REINJECTION											24
25	- NO. WITH MECHANICAL PRECIPITATORS											25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS											26
27	- NO. WITH COMBINATION PRECIPITATORS [4]											27
28	- NO. WITH DESULFURIZATION SYSTEMS											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	5.00	7.00		8.00	5.00	7.00	7.00	15.00	8.00	15.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH											30
31	TESTED, LOW - HIGH											31
32	EST(MATED, LOW - HIGH											32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH											33
34	TESTED, LOW - HIGH											34
35	EST., LOW - HIGH											35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH											36
37	TESTED, LOW - HIGH											37
38	ESTIMATED, LOW - HIGH											38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)											39
40	SULFUR DIOXIDE (1,000 TONS)											40
41	NITROGEN OXIDES (1,000 TONS)		1.65		.77		4.39		2.36		1.42	41
42	STACKS: - TOTAL NO.		2		2		5		3		5	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]		149.00		110.00		149.00	136.00	149.00	85.00	149.50	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]											44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]											45
46	SOLD (1,000 TONS) [11]											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)											50
51	ELECTROSTATIC PRECIPITATORS ($1,000)											51
52	COMBINATION PRECIPITATORS ($1,000) [4]											52
53	DESULFURIZATION SYSTEMS ($1,000)											53
54	STACKS ($1,000)		137.20		20.70		330.60		123.00		218.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)											55
56	REVENUES FROM SALE OF ASH ($1,000)											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]											59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)											60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O (RRIG. D(ST.		R RIO GRANDE		M		O SHIP CHANNEL		M		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)		3.32		1.58		8.15		316.00		2.34	62
63	AVERAGE RATE OF DISCHARGE (CFS)		.90		.42		1.69		316.00		.70	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]		2.42		1.16		6.46	2.72			1.64	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]							AUG	FEB			65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER							87.00				66
67	AT OUTFALL, SUMMER - WINTER							104.00				67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER											68
69	- WINTER											69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.09		.10		.75		.30		.20	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		25.99		.13		71.40		15.01		90.12	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		12.50								.79	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	12.00		3.00		6.00		74.00		1.04		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST		ST		ST		ST		PS		77
78	RECEIVING WATER BODY [19]											78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING											79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING											80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN											81
82	- ASH SETTLING											82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)											83
84	ONCE THROUGH COOLING (SALINE)							4	244.50			84
85	COOLING PONDS(S)											85
86	COOLING TOWERS(S)	2	188.70	2	72.00	4	574.20			6	230.00	86
87	COMBINATIONS [21]											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958	1960	1951	1955	1954	1969	1942	1965	1926	1970	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	16.40	16.90		15.50	16.40	22.20	13.30	17.70	11.50	16.10	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		268.00		120.00		689.00		378.20		379.80	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)								378.20			91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)								1,397.00			92
93	COOLING PONDS ($1,000)											93
94	COOLING TOWERS ($1,000)		1,794.00		759.00		3,625.00				109.00	94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		18.60		24.40		9.14		25.00		11.10	95
96	COST OF CHEMICAL ADDITIVES ($1,000)		15.60		7.30		7.20		9.10		14.60	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		14.00		13.10		16.30		14.80		13.20	97
98	COST OF CHEMICAL ADDITIVES ($1,000)		6.40		2.00		11.50		4.60		10.10	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

| | | |

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	CENTRAL TELE &		CITY OF AUSTIN E		CITY OF AUSTIN E		CITY OF LAFAYETTE		CITY OF LAFAYETTE,		1
2		2	UTIL. CORP. - SO.		DEPT.		DEPT.		UTIL. SYSTEM		UTIL. SYSTEM		2
3		3	COLO. PWR. DIV.										3
4	NAME OF PLANT	4	CLARK		HOLLY STREET		SEAHOLM		BONIN		ROOEMACHER		4
5	UTILITY-PLANT CODE	5	082500-1200		089500-0100		089500-0200		094000-0100		094000-0300		5
6	STATE	6	COLORADO		TEXAS		TEXAS		LOUISIANA		LOUISIANA		6
7	COUNTY	7	FREMONT		TRAVIS		TRAVIS		LAFAYETTE		LAFAYETTE		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	038 11		212 12		212 12		106 08		106 08		8
9	PLANT CAPACITY (MW)	9	43.75		416.00		125.00		143.35		42.65		9
10	ANNUAL GENERATION (MWH) [3]	10	291,100		1,542,400		460,200		285,200		113,600		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	13,550		10,584		13,915		11,553		13,820		11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12	115.90										12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,200										13
14	AVERAGE SULFUR CONTENT (%)	14	.70										14
15	AVERAGE ASH CONTENT (%)	15	14.89										15
16	AVERAGE MOISTURE CONTENT (%)	16	10.57										16
17	OIL: CONSUMPTION (1,000 BARRELS)	17			7.15		4.23				2.87		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18			146,942		146,942				138,000		18
19	AVERAGE SULFUR CONTENT (%)	19			.96		.96				.62		19
20	GAS: CONSUMPTION (1,000 MCF)	20	1,378.30		16,284.70		5,907.79		2,911.21		1,392.52		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	987		1,013		1,012		1,029		1,019		21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	2		3		5		2		4		22
23	- NO. OF WET BOTTOM	23											23
24	- NO. WITH FLY ASH REINJECTION	24	2										24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	2										25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26											26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27											27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	24.00		10.70		10.00		7.00		7.00 15.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	88.00 93.00										30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32	93.00										32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33											33
34	TESTED, LOW - HIGH	34											34
35	EST., LOW - HIGH	35											35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39	1.99										39
40	SULFUR DIOXIDE (1,000 TONS)	40	1.59		.02		.01						40
41	NITROGEN OXIDES (1,000 TONS)	41	1.14		3.19		1.16		.57		.27		41
42	STACKS: - TOTAL NO.	42	2		3		5		2		3		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	150.00	154.00	156.00	80.00	120.00	88.00	131.00	62.00	69.20		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45	18.30										45
46	SOLD (1,000 TONS) [11]	46											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50	46.00										50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51											51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52											52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	66.00						43.00		8.30		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	13.00										55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59	13.00										59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60											60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R ARKANSAS		R COLORADO		R COLORADO		W		W		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	60.00		510.00		211.00						62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	59.00		510.00		211.00						63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	1.00	4.39		1.81							64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	AUG OEC	AUG	OEC	AUG	OEC						65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	70.00 39.00	79.00	60.70	77.00	52.00						66
67	AT OUTFALL, SUMMER - WINTER	67	71.00 40.00	96.00	73.00	93.00	60.00						67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	800.00		550.00		300.00						68
69	- WINTER	69	500.00		380.00		160.00						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	.15		1.27		1.19		.08		.02		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.09						.12		.18		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73											73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	.50						8.00		2.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES		YES		YES		YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	PS		PS		PS		PS		PS		77
78	RECEIVING WATER BODY	78											78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79											79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80											80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81											81
82	- ASH SETTLING	82											82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING [19]: ONCE THROUGH COOLING (FRESH)	83			3 416.00		5 125.00						83
84	ONCE THROUGH COOLING (SALINE)	84											84
85	COOLING PONDS)	85											85
86	COOLING TOWERS)	86							2 143.35		4 45.65		86
87	COMBINATIONS [21]	87	2 38.50										87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1955 1958	1960	1966	1951	1958	1965	1970	1951	1960		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	13.00 16.00		15.00		12.00		20.00		20.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	72.80		618.00		297.00		247.00		104.40		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	72.80		618.00		297.00						91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	100.00										92
93	COOLING PONDS ($1,000)	93	30.00										93
94	COOLING TOWERS ($1,000)	94	73.00						509.21		257.53		94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	36.50						2.00		4.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	.16						27.30		9.00		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	8.00						5.00		6.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	1.00		1.40		3.80		2.30		.20		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	CITY P & L DEPT. INDEPENDENCE MO.	CITY P. S. BD. SAN ANTONIO	CITY P. S. BD. SAN ANTONIO	CITY P. S. BD. SAN ANTONIO	CITY P. S. BD. SAN ANTONIO	
NAME OF PLANT	BLUE VALLEY	LEON CREEK	MISSION ROAD	BRAUNIG	TUTTLE	
UTILITY-PLANT CODE	099500-0100	100000-0100	100000-0200	100000-0300	100000-0400	
STATE	MISSOURI	TEXAS	TEXAS	TEXAS	TEXAS	
COUNTY	JACKSON	BEXAR	BEXAR	BEXAR	BEXAR	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	094 10	217 12	217 12	217 12	217 12	
PLANT CAPACITY (MW)	115.00	263.64	163.64	894.01	493.95	
ANNUAL GENERATION (MWH) [3]	444,800	377,300	278,800	2,824,100	1,347,100	
PLANT HEAT RATE (BTU/KWH) [3]	11,036	11,157	11,309	9,933	10,591	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	22.60					
AVERAGE HEAT CONTENT (BTU/LB)	12,730					
AVERAGE SULFUR CONTENT (%)	3.24					
AVERAGE ASH CONTENT (%)	9.90					
AVERAGE MOISTURE CONTENT (%)	6.46					
OIL: CONSUMPTION (1,000 BARRELS)	3.00		.01	.93		
AVERAGE HEAT CONTENT (BTU/GAL)	140,000		137,000	136,840		
AVERAGE SULFUR CONTENT (%)	.60		.08	.08		
GAS: CONSUMPTION (1,000 MCF)	4,485.20	4,486.10	3,394.60	25,927.40	14,294.70	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	972	1,028	1,025	1,032	1,026	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	4	3	3		4	
- NO. OF WET BOTTOM	3						
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS	3						
- NO. WITH ELECTROSTATIC PRECIPITATORS							
- NO. WITH COMBINATION PRECIPITATORS [4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	3.50 4.00	10.00	10.00	7.00 10.00		10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00 90.30						
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH	85.00 90.30						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
EST., LOW - HIGH							
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.17						
SULFUR DIOXIDE (1,000 TONS)	1.44						
NITROGEN OXIDES (1,000 TONS)	1.22	.87	.66	5.06	2.79		
STACKS: - TOTAL NO.	3	3	2	3	5		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	152.50 250.00	100.00 150.00	150.00	174.00 187.00	143.50 150.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
TOTAL ASH: COLLECTED (1,000 TONS) [10]	2.34						
SOLD (1,000 TONS) [11]							
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	58.80						
ELECTROSTATIC PRECIPITATORS ($1,000)							
COMBINATION PRECIPITATORS ($1,000) [4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	99.70	69.20	35.90	104.50			
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	5.00						
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	5.00						
TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W		W		W		O SEWAGE EFFLNT.		W		
AVERAGE RATE OF WITHDRAWAL (CFS)		1.40		1.60		1.20		13.80		5.50	
AVERAGE RATE OF DISCHARGE (CFS)				.50		.40		12.00		1.90	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]		1.40		1.10		.80		1.80		3.60	
PEAK LOAD MONTH : SUMMER - WINTER [15]			AUG	DEC	AUG	DEC	AUG	DEC	AUG	DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER					81.00	67.00	86.00	68.00	80.00	61.00	
AT OUTFALL, SUMMER - WINTER			100.00	75.00	100.00	75.00	86.00	68.00	100.00	75.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						5.10					
- WINTER						15.00					
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D [16]											
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	8.70	.03	7.50	.04	5.99	.06		.93	26.46	.31	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		12.60		16.70		15.49		121.16		41.82	
LIME (TONS), COOLING WATER - BOILER MAKEUP	267.30							23.83			
ALUM (TONS), COOLING WATER - BOILER MAKEUP	74.34							3.77			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	9.58		3.80		2.59		82.08	2.08	8.40		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	YES		YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [16]	ST		ST		PS		OT		ST		
RECEIVING WATER BODY							O COOLING PONO				
POND DISCHARGE [18] PH, BOILER BLOWDOWN - ASH SETTLING	8.00				10.00		10.00		10.00		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					20.00		100.00		100.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						100.00		287.18		30.00	
- ASH SETTLING											

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)										
ONCE THROUGH COOLING (SALINE)										
COOLING PONDS							3	894.01		
COOLING TOWER(S)	3	115.00	4	263.64	3	163.64			4	493.96
COMBINATIONS [21]										
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958	1965	1949	1959	1945	1958		1963	1954	1963
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00	17.00	15.00	17.40	13.00	18.00		16.00	17.50	18.00
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		199.30		391.90		248.90		1,394.00		656.10
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)										

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)				4,717.00		
COOLING TOWERS ($1,000)	325.28	1,113.50	925.00		1,891.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		36.10	17.30	96.80	35.40	
COST OF CHEMICAL ADDITIVES ($1,000)	16.10	11.50	9.30	10.40	32.90	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		15.10	14.30	36.30	19.00	
COST OF CHEMICAL ADDITIVES ($1,000)	1.82	2.70	2.20	15.40	6.10	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	CITY UTIL. OF SPRINGFIELD		CLEVELAND DEPT. PUBLIC UTIL.		CLEVELAND ELEC. ILLUM. CO		CLEVELAND ELEC. ILLUM. CO		CLEVELAND ELEC. ILLUM. CO		1
2		2											2
3		3											3
4	NAME OF PLANT	4	JAMES RIVER		LAKE ROAD		ASHTABULA		AVON LAKE		EAST LAKE		4
5	UTILITY-PLANT CODE	5	101000-0100		103500-0200		104000-0100		104000-0200		104000-0300		5
6	STATE	6	MISSOURI		OHIO		OHIO		OHIO		OHIO		6
7	COUNTY	7	GREENE		CUYAHOGA		ASHTABULA		LORAIN		LAKE		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	139 11		174 04		178 04		174 04		174 04		8
9	PLANT CAPACITY (MW)	9	257.00		160.00		456.00		1,275.00		577.00		9
10	ANNUAL GENERATION (MWH) [3]	10	826,200		376,800		1,874,500		4,278,300		3,956,000		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	10,653		17,618		11,208		10,670		9,941		11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12	30.93		263.44		942.40		1,977.30		1,779.80		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,473		11,591		11,135		11,510		11,033		13
14	AVERAGE SULFUR CONTENT (%)	14	4.03		2.42		4.24		2.66		2.30		14
15	AVERAGE ASH CONTENT (%)	15	13.25		12.38		18.20		13.22		15.20		15
16	AVERAGE MOISTURE CONTENT (%)	16	4.68		7.05		5.91		7.17		8.17		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17			128.69		4.69		21.04		9.69		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18			140,455		136,434		136,985		137,406		18
19	AVERAGE SULFUR CONTENT (%)	19			.27		.10		.10		.10		19
20	GAS: CONSUMPTION (1,000 MCF)	20	8,425.00										20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,001										21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	5		6		7		12		4		22
23	- NO. OF WET BOTTOM	23											23
24	- NO. WITH FLY ASH REINJECTION	24							1				24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	4		3								25
26	- NO. WITH ELECTROSTATIC PRECIPITATOR	26	1		1		7		12				26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27			2						4		27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	20.00	25.00	20.00	24.00	79.00	18.00	55.00	22.00			29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	87.00	88.00	95.00								30
31	TESTED, LOW - HIGH	31			86.00								31
32	ESTIMATED, LOW - HIGH	32	87.00	88.00	70.00								32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33		98.00	96.50	98.00	90.00	95.60	94.00	99.50	98.20		33
34	TESTED, LOW - HIGH	34						93.20	82.30	97.00	95.00	99.50	34
35	EST., LOW - HIGH	35		98.00	70.00	98.00	75.00	96.00	75.00	99.50		97.50	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39		.35		6.94		15.78		13.01		5.75	39
40	SULFUR DIOXIDE (1,000 TONS)	40		2.44		12.89		78.32		103.10		80.24	40
41	NITROGEN OXIDES (1,000 TONS)	41		1.93		2.71		8.49		17.84		16.04	41
42	STACKS: - TOTAL NO.	42		4		6		2		5		4	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	200.00	350.00	152.00	162.00	274.00	373.00	277.00	600.00		300.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45		4.30		9.31		137.90		225.50		341.70	45
46	SOLD (1,000 TONS) [11]	46											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF AC10 COLLECTED (1,000 TONS) [12]	48											48
49	ELEMENTAL AND EQUIVALENT OF AC10 SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50											50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51		200.00				658.00		2,492.00			51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52										2,354.00	52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54		422.80				261.00		1,848.00		1,014.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55		3.50		67.80		349.00		686.00		881.00	55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59		3.50		67.80		349.00		686.00		881.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60											60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, S, C, W, M & O EXPL. IN FOOTNOTES)	61	L SPRINGFIELD		L ERIE		L ERIE		L ERIE		L ERIE		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		105.50		229.00		739.00		978.00		970.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63		105.50		229.00		739.00		978.00		970.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64			1.97		6.36		8.41		8.34		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	AUG	DEC	JUN	JAN	AUG	DEC	AUG	DEC	AUG	DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	91.00	56.00	76.00	39.00	76.00	32.00	76.00	32.00	76.00	32.00	66
67	AT OUTFALL, SUMMER - WINTER	67	104.00	76.00	90.00	53.00	88.00	46.00	91.00	47.00	90.00	44.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		10.90		229.00							68
69	- WINTER	69		416.00		229.00							69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]	70			C								70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		.14		7.30		8.45		5.30		.35	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		15.80		.20		90.04		93.07		72.05	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						17.50		38.13		36.00	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	2.60				32.10		41.08		34.50		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76		YES		YES		YES		YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	ST				ST		PS		ST		77
78	RECEIVING WATER BODY [19]	78					L ERIE				L ERIE		78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79						7.80		7.00		7.70	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80						125.00		100.00		125.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81											81
82	- ASH SETTLING	82						122,000.00		1,300.00		47,700.00	82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83			4	160.00	5	456.00	9	1,275.00	4	577.00	83
84	ONCE THROUGH COOLING (SALINE)	84											84
85	COOLING POND(S)	85											85
86	COOLING TOWER(S)	86											86
87	COMBINATION [21]	87	5	257.00									87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1957	1970	1941	1967	1942	1958	1926	1968	1953	1956	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	13.00	28.50		22.00		12.00	8.00	17.00	11.00	12.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		457.30		294.40		1,188.00		1,893.10		970.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		701.90		294.40		1,188.00		994.30		970.00	91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92		849.50				2,224.00		3,929.00		3,444.00	92
93	COOLING PONDS ($1,000)	93											93
94	COOLING TOWERS ($1,000)	94		900.00									94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95		31.40				96.00		147.00		134.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		.30				1.00		1.00		1.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		10.20		34.14		165.00		188.00		213.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		3.50		12.00		17.00		53.00		13.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	CLEVELAND ELEC. ILLUM. CO	COLO SPRINGS P&L DEPT.	COLO SPRINGS P&L DEPT.	COLORADO - UTE E ASSN. INC.	COLORADO - UTE E ASSN. INC.	
NAME OF PLANT	LAKE SHORE	DRAKE	BIROSALL	HAYDEN	NUCLA	
UTILITY-PLANT CODE	104000-0400	108000-0100	108000-0200	108500-0100	108500-0300	
STATE	OHIO	COLORADO	COLORADO	COLORADO	COLORADO	
COUNTY	CUYAHOGA	EL PASO	EL PASO	ROUTT	MONTROSE	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	174 04	038 11	038 11	040 14	035 14	
PLANT CAPACITY (MW)	514.00	150.00	62.50	163.20	34.50	
ANNUAL GENERATION (MWH) [3]	2,615,000	772,300	184,100	1,316,900	118,000	
PLANT HEAT RATE (BTU/KWH) [3]	10,870	11,023	12,898	9,832	14,049	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,270.70	63.80		596.00	70.00	
AVERAGE HEAT CONTENT (BTU/LB)	11,160	10,366		10,858	12,150	
AVERAGE SULFUR CONTENT (%)	2.61	.82		.54	.71	
AVERAGE ASH CONTENT (%)	14.06	12.21		9.45	11.32	
AVERAGE MOISTURE CONTENT (%)	8.20	11.24		11.01	5.87	
OIL: CONSUMPTION (1,000 BARRELS)	11.80	.04	37.50	1.10		
AVERAGE HEAT CONTENT (BTU/GAL.)	137,384	149,245	146,800	130,000		
AVERAGE SULFUR CONTENT (%)	.10	1.02	.90	.20		
GAS: CONSUMPTION (1,000 MCF)		7,445.70	2,211.10			
AVERAGE HEAT CONTENT (BTU/CU.FT.)		983	986			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	5	3	1	3	
- NO. OF WET BOTTOM	4	2			3	
- NO. WITH FLY ASH REINJECTION		1			3	
- NO. WITH MECHANICAL PRECIPITATORS	5			1		
- NO. WITH ELECTROSTATIC PRECIPITATORS		1				
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00 23.00	8.00 15.00	15.00	20.00	26.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00			86.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH		84.00			82.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	90.00 99.40	99.50		98.50		
TESTED, LOW - HIGH	59.80 98.80	93.30		98.20		
EST., LOW - HIGH	82.00 99.00	99.00		97.40		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	9.09	.35	.01	1.24	1.99	
SULFUR DIOXIDE (1,000 TONS)	65.01	1.03	.12	6.31	.97	
NITROGEN OXIDES (1,000 TONS)	15.05	2.41	.52	5.37	.53	
STACKS: - TOTAL NO.	5	5	3	1	3	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	268.00 320.00	56.00 200.00	142.10	250.00	100.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	129.90	7.20		55.40	7.60	
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		27.20			240.00	
ELECTROSTATIC PRECIPITATORS ($1,000)	1,264.00			579.00		
COMBINATION PRECIPITATORS ($1,000) [4]		266.30				
DESULFURIZATION SYSTEMS ($1,000)				215.00	318.00	
STACKS ($1,000)	481.00	220.10		37.30	20.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	669.00	11.50				
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	669.00	11.50		37.30	20.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L ERIE	M	M	R YAMPA	R SAN MIGUEL	
AVERAGE RATE OF WITHDRAWAL (CFS)	876.00	2.15	.75	2.10	39.10	
AVERAGE RATE OF DISCHARGE (CFS)	876.00	.50	.19	.50	38.80	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]		1.65	.56	1.60	.30	
PEAK LOAD MONTH : SUMMER - WINTER [15]	7.53			AUG OEC	AUG OEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	AUG OEC			62.00 34.00	62.00 34.00	
AT OUTFALL, SUMMER - WINTER	76.00 32.00			65.00 50.00	67.00 38.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	93.00 49.00			880.00	430.00	
- WINTER				210.00	115.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, L [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.90	1.04 .01	2.88	8.98 .20		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	97.72	.13	.07 .05	2.00 14.90	.92	
LIME (TONS), COOLING WATER - BOILER MAKEUP	37.08			4.27 1.83		
ALUM (TONS), COOLING WATER - BOILER MAKEUP		2.61	3.06	15.16 6.50		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	154.21			6.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES YES	YES YES	YES YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	PS	PS	ST	ST	
RECEIVING WATER BODY				R YAMPA	R SAN MIGUEL	
POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	7.50	11.70		8.80	8.50	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	750.00			250.00	250.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	273,800.00					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	5 514.00					
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)		4 16.00				
COOLING TOWER(S)		3 135.00	3 62.50	1 163.20		
COMBINATIONS [21]					3 34.50	
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1940 1960	1946 1968	1953 1956	1965	1959	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST [22]	9.00 17.00	14.00 18.00	14.00	19.70	17.30	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	876.00	280.40	122.30	186.70	90.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	876.00				90.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,831.00				382.00	
COOLING PONDS ($1,000)		19.00			296.00	
COOLING TOWERS ($1,000)		1,333.00		632.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	242.00	.53	2.40	50.20	48.70	
COST OF CHEMICAL ADDITIVES ($1,000)	5.00	8.75	2.80	27.10	.30	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	122.00			36.80	4.40	
COST OF CHEMICAL ADDITIVES ($1,000)	20.00	.46	.60	7.60	2.90	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	COLUMBUS & S OHIO ELECTRIC CO.	COLUMBUS & S OHIO ELECTRIC CO.	COLUMBUS & S OHIO ELECTRIC CO.	COLUMBUS & S OHIO ELECTRIC CO.	COMMONWEALTH EDISON CO.	
NAME OF PLANT	CONESVILLE	PICWAY	POSTON	WALNUT	STATE LINE	
UTILITY-PLANT CODE	109500-0200	109500-0500	109500-0600	109500-0700	111000-0100	
STATE	OHIO	OHIO	OHIO	OHIO	INDIANA	
COUNTY	COSHOCTON	PICKAWAY	ATHENS	FRANKLIN	LAKE	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	183 05	176 05	179 05	176 05	067 04	
PLANT CAPACITY (MW)	433.50	230.75	232.00	75.00	972.00	
ANNUAL GENERATION (MWH) [3]	2,724,200	645,800	1,289,400	158,100	4,800,200	
PLANT HEAT RATE (BTU/KWH) [3]	10,373	13,602	13,124	19,390	10,158	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,303.00	381.00	732.00	129.00	1,657.00	
AVERAGE HEAT CONTENT (BTU/LB)	11,161	11,239	11,266	11,049	10,983	
AVERAGE SULFUR CONTENT (%)	4.63	3.35	2.01	3.11	3.39	
AVERAGE ASH CONTENT (%)	14.83	12.61	11.33	12.34	11.56	
AVERAGE MOISTURE CONTENT (%)	7.10	8.22	9.52	9.32	10.86	
OIL: CONSUMPTION (1,000 BARRELS)						
AVERAGE HEAT CONTENT (BTU/GAL)						
AVERAGE SULFUR CONTENT (%)						
GAS: CONSUMPTION (1,000 MCF)						
AVERAGE HEAT CONTENT (BTU/CU.FT.)					11,652.90	
					1,040	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	4	4	4	11	
- NO. OF WET BOTTOM	2	3		3	7	
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS	1	1	4			
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS [4]					11	
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	11.00 22.00	20.00	20.00 28.00	20.00 22.00	16.00 25.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	83.00	85.00	85.00			
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH	60.00	50.00	50.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH					90.00 98.00	
EST., LOW - HIGH					83.50 98.60	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					92.00 98.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	36.27	26.24	35.25	11.41	3.78	
SULFUR DIOXIDE (1,000 TONS)	118.24	25.02	28.84	7.86	110.10	
NITROGEN OXIDES (1,000 TONS)	27.03	4.66	6.59	1.68	30.76	
STACKS: - TOTAL NO.	2	4	2	3	6	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	450.00	127.50 288.50	200.00	129.00 130.00	301.00 450.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	170.70	23.20	76.50	5.10	209.10	
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	287.00	180.00	639.00			
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) [4]					4,230.00	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)						
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	788.00	165.00	120.00	19.00	731.00	
REVENUES FROM SALE OF ASH ($1,000)	110.00	77.00	103.00	19.00	729.00	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	110.00	77.00	103.00	19.00	729.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MUSKINGUM	R SCIOTO	W	C BIG WALNUT	L MICHIGAN	
AVERAGE RATE OF WITHDRAWAL (CFS)	382.00	240.00	5.54	62.00	1,118.00	
AVERAGE RATE OF DISCHARGE (CFS)	381.97	239.95	1.16	61.96	1,118.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.29 .03	2.06 .05	4.38	.53 .04	9.61	
PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG JAN	AUG JAN		AUG JAN	JUL JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	81.00 46.00	85.00 47.00		85.00 48.00	71.00 46.00	
AT OUTFALL, SUMMER - WINTER	87.00	93.00			79.00 57.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,634.00	377.00		151.00		
- WINTER	3,269.00	1,384.00		459.00		
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, OTH [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.20	.20	25.70 .25	4.50	2.46	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	732.00	20.90	.20		65.22	
LIME (TONS), COOLING WATER - BOILER MAKEUP		43.85	1,289.25	37.65		
ALUM (TONS), COOLING WATER - BOILER MAKEUP			155.40		9.03	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	77.00		45.80		53.48	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH [18]	ST	ST		ST	PS	
RECEIVING WATER BODY [19]		R SCIOTO	R HOCKING	C BIG WALNUT		
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING		9.00	8.60	8.10	9.80 7.30	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		5.00	5.00	3.00	3.00 80.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	166,000.00	66,000.00	30,500.00	13,800.00	203.00 87,894.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	3 433.50	5 200.75		3 75.00	4 972.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)			232.00			
COMBINATIONS [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1957 1962	1926 1955	1949 1954	1921 1939	1929 1962	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	16.00 21.00	10.00 18.00	14.00 16.00	13.00 22.00	8.50 12.20	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	465.00	386.00	436.00	196.00	1,850.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	465.00	386.00		196.00	1,850.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	2,461.00	1,399.00		489.00	2,252.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)			4,159.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	84.50	16.20	111.40	7.10	66.00
COST OF CHEMICAL ADDITIVES ($1,000)	8.70		54.40		5.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	52.40	42.60	12.60	15.90	192.00
COST OF CHEMICAL ADDITIVES ($1,000)	72.10	5.50	3.80	4.30	17.00

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	
NAME OF PLANT	FISK	CALUMET	CRAWFORD	DIXON	ORESOEN	
UTILITY-PLANT CODE	111500-0100	111500-0200	111500-0300	111500-0400	111500-0500	
STATE	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	
COUNTY	COOK	COOK	COOK	LEE	GRUNDY	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	067 04	067 04	067 04	071 07	067 07	
PLANT CAPACITY (MW)	547.00	107.00	702.00	119.00	1,019.00	
ANNUAL GENERATION (MWH) 3/	2,689,400	631,200	4,048,700	709,000	2,514,400	
PLANT HEAT RATE (BTU/KWH) 3/	10,412	12,608	10,239	11,771		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	727.00	137.00	937.00	292.00		
AVERAGE HEAT CONTENT (BTU/LB)	9,714	9,783	9,673	10,852		
AVERAGE SULFUR CONTENT (%)	2.46	2.28	2.44	2.79		
AVERAGE ASH CONTENT (%)	10.61	10.37	10.62	7.22		
AVERAGE MOISTURE CONTENT (%)	19.16	18.38	19.24	16.97		
OIL: CONSUMPTION (1,000 BARRELS)						
AVERAGE HEAT CONTENT (BTU/GAL)						
AVERAGE SULFUR CONTENT (%)						
GAS: CONSUMPTION (1,000 MCF)	13,375.60	5,090.60	22,469.50	1,930.50		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,038	1,038	1,037	1,037		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	2	8	2		
- NO. OF WET BOTTOM	4	2		2		
- NO. WITH FLY ASH REINJECTION	2					
- NO. WITH MECHANICAL PRECIPITATORS	5	2	2	2		
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	18.00 22.00	20.00	10.00 15.00	20.00 25.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	98.00	95.00	97.40 98.00	92.00 95.00		
TESTED, LOW - HIGH	96.40 98.70	92.00 99.80	98.60 99.30	96.40 99.20		
EST., LOW - HIGH	98.00	96.00	98.00	93.00 96.00		
LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.98	.37	1.69	.71		
SULFUR DIOXIDE (1,000 TONS)	35.05	6.12	44.81	15.97		
NITROGEN OXIDES (1,000 TONS)	13.16	3.05	12.81	4.76		
STACKS: - TOTAL NO.	5	2	5	2		
- HEIGHT (FEET), LOWEST - HIGHEST 8/	292.00 450.00	300.00	185.00 378.00	221.00 246.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/	88.30	20.80	83.40	18.60		
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	3,564.00	502.00	1,970.00	428.00		
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) 4/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	487.00	82.00	716.00	98.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	541.00	176.00	388.00	73.00		
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	541.00	176.00	388.00	73.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O CHICAGO CANAL	R CALUMET	O CHICAGO CANAL	R ROCK	R ILLINOIS	
AVERAGE RATE OF WITHDRAWAL (CFS)	509.00	174.00	707.00	186.00	448.00	
AVERAGE RATE OF DISCHARGE (CFS)	509.00	174.00	707.00	186.00	448.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	4.38	1.50	6.08	1.60	3.85	
PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL JAN	JUL JAN	JUL JAN	JUL JAN	JUL JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 50.00	86.00 45.00	77.00 46.00	87.00 43.00	86.00 36.00	
AT OUTFALL, SUMMER - WINTER	90.00 58.00	98.00 56.00	93.00 58.00	102.00 68.00	104.00 52.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	2,999.00	277.00	2,999.00	10,840.00	12,632.00	
- WINTER	1,448.00	949.00	1,448.00	6,177.00	12,058.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.73	.07	.41	.71	.03	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	63.85	8.71	71.82	.19	47.73	
LIME (TONS), COOLING WATER - BOILER MAKEUP				17.90		
ALUM (TONS), COOLING WATER - BOILER MAKEUP	5.10	1.16	6.03			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	128.32	26.00	166.18	26.00	3.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	PS	PS	PS	OT	
RECEIVING WATER BODY					R ILLINOIS	
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	10.50 7.80	10.80 7.80	9.40 7.70	10.80 8.10		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	3.00 8.00	3.00 20.00	3.00 50.00	3.00 2.40		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	314.00	58.00	504.00	260.00		
- ASH SETTLING	36,267.00	13,800.00	10,400.00	9,500.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	3 572.00	3 175.00	3 701.00	2 119.00	2 1,019.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATIONS 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1914 1959	1923 1947	1928 1961	1945 1953	1960 1970	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	10.60 13.90	8.30 11.10	8.20 13.50	11.80 14.70	18.70 22.80	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	931.00	534.00	1,255.00	237.00	1,493.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	931.00	534.00	1,255.00	237.00	1,493.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	3,538.00	722.00	2,650.00	571.00	6,023.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	74.00	25.00	100.00	24.00	15.00	
COST OF CHEMICAL ADDITIVES ($1,000)	22.00	3.00	28.00	4.00	1.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	148.00	61.00	169.00	55.00	155.00	
COST OF CHEMICAL ADDITIVES ($1,000)	18.00	6.00	27.00	3.00	78.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	1
2							2
3							3
4	NAME OF PLANT	FOROHAM	JOLIET	KINCAID	NORTHWEST	POWERTON	4
5	UTILITY-PLANT CODE	111500-0700	111500-1000	111500-1100	111500-1200	111500-1300	5
6	STATE	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	6
7	COUNTY	WINNEBAGO	WILL	CHRISTIAN	COOK	TAZEWELL	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	073 07	067 07	075 07	067 04	065 07	8
9	PLANT CAPACITY (MW)	75.00	1,787.00	1,319.00	224.00	320.00	9
10	ANNUAL GENERATION (MWH) [3]	289,300	7,983,500	5,680,600	202,400	1,155,000	10
11	PLANT HEAT RATE (BTU/KWH) [3]	16,988	10,763	10,320	15,496	14,283	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	92.00	2,936.00	2,999.00	149.00	809.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,185	10,639	9,758	10,168	10,041	13
14	AVERAGE SULFUR CONTENT (%)	2.98	3.57	4.20	2.88	4.08	14
15	AVERAGE ASH CONTENT (%)	11.07	13.22	14.86	11.18	13.68	15
16	AVERAGE MOISTURE CONTENT (%)	11.06	11.78	15.57	16.00	14.79	16
17	OIL: CONSUMPTION (1,000 BARRELS)					15.00	17
18	AVERAGE HEAT CONTENT (BTU/GAL)					137,799	18
19	AVERAGE SULFUR CONTENT (%)						19
20	GAS: CONSUMPTION (1,000 MCF)	2,730.80	22,413.10	83.50	115.30	.50	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,050	1,037	992	1,039		21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	8	9	2	3	12	22
23	- NO. OF WET BOTTOM		5	2	3	9	23
24	- NO. WITH FLY ASH REINJECTION			2			24
25	- NO. WITH MECHANICAL PRECIPITATORS	3					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		5	2	3		26
27	- NO. WITH COMBINATION PRECIPITATORS [4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	25.00 28.00	16.00 25.00	16.00	20.50	20.00 28.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	92.00					30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH	93.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		98.00 99.00	98.00	97.00		33
34	TESTED, LOW - HIGH		97.50	98.10	75.30 96.50		34
35	EST., LOW - HIGH		98.00 99.00	98.00	98.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	3.12	10.38	.99	.22	75.26	39
40	SULFUR DIOXIDE (1,000 TONS)	5.37	205.44	246.88	8.41	64.72	40
41	NITROGEN OXIDES (1,000 TONS)	1.25	49.65	82.49	2.26	11.44	41
42	STACKS: - TOTAL NO.	4	6	2	2	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	222.00 237.00	248.00 550.00	500.00	315.00	311.00 352.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	13.90	374.60	443.90	28.40	49.30	45
46	SOLD (1,000 TONS) [11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	66.00					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		6,454.00	4,342.00	459.00		51
52	COMBINATION PRECIPITATORS ($1,000) [4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	110.00	1,387.00	950.00	58.00	1,337.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	106.00	987.00	608.00	89.00	117.00	55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	106.00	987.00	608.00	89.00	117.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, O, C, W, M & O EXPL. IN FOOTNOTES)	R ROCK	R DES PLAINES	O LOCAL RUNOFF	O CHICAGO CANAL	R ILLINOIS	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	113.00	1,532.00		81.00	500.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	113.00	1,532.00		81.00	500.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.97	13.18		.70	4.30	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL JAN	JUL JAN	JUL JAN	JUL JAN	JUL JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 32.00	85.00 45.00	87.00 46.00		86.00 40.00	66
67	AT OUTFALL, SUMMER - WINTER	91.00 46.00	95.00 63.00	99.00 58.00		111.00 58.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	7,960.00	6,270.00			19,157.00	68
69	- WINTER	4,149.00	3,984.00			12,852.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.26	3.52		.29	1.77	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	253.30	214.91	267.14	9.50	50.91	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			209.97			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		703.77	43.41	20.20	215.62	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	OT	OT	PS	OT	77
78	RECEIVING WATER BODY [19]		R DES PLAINES	L KINCAID		R ILLINOIS	78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	11.00 8.10	10.30 7.80	7.90	10.80	10.80 8.20	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	3.00	3.00 20.00	1.50	3.00	3.00 20.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	10.00	1,786.00		137.00	29.00	81
82	- ASH SETTLING	15,800.00	30,000.00	817,000.00		27,027.00	82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	6 75.00	8 1,662.00		7 224.00	4 320.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)			2 1,320.00			85
86	COOLING TOWER(S)						86
87	COMBINATION [21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1916 1947	1917 1966	1967 1968	1912 1957	1928 1940	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	20.30	8.00 10.00	22.50		7.00 8.70	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	196.00	3,301.00	1,070.00		1,090.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	205.00	3,145.00	1,070.00	334.00	1,090.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	412.00	5,805.00	2,675.00	496.0	2,313.00	92
93	COOLING PONDS ($1,000)			3,819.00			93
94	COOLING TOWERS ($1,000)						94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.00	134.00	119.00	43.00	29.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)		119.00	16.00	6.00	18.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	80.00	263.00	206.00	46.00	51.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	36.00	71.00	93.00	4.00	19.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	COMMONWEALTH EDISON CO.		COMMONWEALTH EDISON CO.		COMMONWEALTH EDISON CO.		COMMONWEALTH EDISON CO.		COMMUNITY PUBLIC SERVICE CO.	
4	NAME OF PLANT	RIOGELAND		SABROOKE		WAUKEGAN		WILL COUNTY		LOROSBURG	
5	UTILITY-PLANT CODE	111500-1400		111500-1500		111500-1600		111500-1700		112000-0400	
6	STATE	ILLINOIS		ILLINOIS		ILLINOIS		ILLINOIS		NEW MEXICO	
7	COUNTY	COOK		WINNEBAGO		LAKE		WILL		HIDALGO	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	067	07	073	07	067	04	067	07	012	15
9	PLANT CAPACITY (MW)		690.00		146.00		1,043.00		1,269.00		51.50
10	ANNUAL GENERATION (MWH) 3/	3,178,000		910,300		5,057,700		5,896,700		182,800	
11	PLANT HEAT RATE (BTU/KWH) 3/	10,916		11,694		10,354		9,919		12,391	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	930.00		209.00		1,932.00		2,841.00			
13	AVERAGE HEAT CONTENT (BTU/LB)	9,888		11,144		10,529		10,150			
14	AVERAGE SULFUR CONTENT (%)	2.91		2.96		2.68		3.39			
15	AVERAGE ASH CONTENT (%)	11.52		11.15		9.34		12.51			
16	AVERAGE MOISTURE CONTENT (%)	17.68		10.99		15.96		15.86			
17	OIL: CONSUMPTION (1,000 BARRELS)	2,302.70				43.30		138.30			
18	AVERAGE HEAT CONTENT (BTU/GAL)	149,278				138,403		138,170			
19	AVERAGE SULFUR CONTENT (%)	.80				.50		.50			
20	GAS: CONSUMPTION (1,000 MCF)	1,802.80		5,712.50		11,020.70				2,255.02	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,038		1,051		1,037				1,070	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6		4		9		4		3	
23	- NO. OF WET BOTTOM	6				6		2			
24	- NO. WITH FLY ASH REINJECTION										
25	- NO. WITH MECHANICAL PRECIPITATORS			3							
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	6		1		8		4			
27	- NO. WITH COMBINATION PRECIPITATORS 4/										
28	- NO. WITH DESULFURIZATION SYSTEMS										
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	10.00	18.00	22.00	27.00	18.00	25.00	10.00	20.00	10.00	12.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				92.00						
31	TESTED, LOW - HIGH										
32	ESTIMATED, LOW - HIGH				92.50						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	90.00	98.00		98.00	95.00	98.00	90.00	98.00		
34	TESTED, LOW - HIGH	91.00	95.20			88.70	99.10		91.70		
35	EST., LOW - HIGH	90.00	98.00		96.00	96.00	98.00	91.00	98.00		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH										
37	TESTED, LOW - HIGH										
38	ESTIMATED, LOW - HIGH										

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.54		.99		5.43		5.19			
40	SULFUR DIOXIDE (1,000 TONS)	59.22		12.13		101.56		189.00			
41	NITROGEN OXIDES (1,000 TONS)	31.00		2.81		27.27		41.67		.44	
42	STACKS: - TOTAL NO.	6		2		4		4		3	
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	213.00		148.00	330.00	450.00	349.00	500.00	55.00	100.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/										
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	144.50		20.50		159.90		309.00			
46	SOLD (1,000 TONS) 11/										
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)										
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/										
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)										
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			98.00							
51	ELECTROSTATIC PRECIPITATORS ($1,000)	1,591.00		179.00		4,569.00		3,211.00			
52	COMBINATION PRECIPITATORS ($1,000) 4/										
53	DESULFURIZATION SYSTEMS ($1,000)										
54	STACKS ($1,000)	860.00		106.00		893.00		1,083.00		44.80	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	427.00		107.00		522.00		1,051.00			
56	REVENUES FROM SALE OF ASH ($1,000)										
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)										
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)										
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	427.00		107.00		522.00		1,051.00			
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)										

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O CHICAGO CANAL		R ROCK		L MICHIGAN		O CHICAGO CANAL		W	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	814.00		204.00		1,100.00		1,117.00		1.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	814.00		204.00		1,100.00		1,117.00			
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	7.00		1.75		9.46		9.61		.85	
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL	JAN	JUL	JAN	JUL	JAN	JUL	JAN	JUL	JAN
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00	49.00	82.00	32.00	76.00	48.00	88.00	51.00		
67	AT OUTFALL, SUMMER - WINTER	95.00	67.00	101.00	50.00	84.00	59.00	100.00	63.00		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		4,745.00		7,960.00				5,045.00		
69	- WINTER		2,880.00		4,149.00				3,180.00		
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/									O	
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		1.77		.50		4.18		1.58		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		74.21		67.16		94.87		167.80		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						9.86				
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					72.00		504.30			
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	240.96					YES		YES	YES	YES
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP		YES		YES			OT			
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS		PS		PS		R	OES PLAINES	PS	
78	RECEIVING WATER BODY										
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	10.40	7.40	11.00	4.00	10.20	7.70	9.70	7.70		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	3.00	45.00	3.00		3.00	25.00	3.00	40.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		321.00		34.00		1,833.00		800.00		
82	- ASH SETTLING		525,500.00		8,000.00		244,000.00		18,484.00		

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	4	692.00	4	147.00	7	1,042.00	4	1,269.00		
84	ONCE THROUGH COOLING (SALINE)										
85	COOLING POND(S)										
86	COOLING TOWER(S)									3	38.50
87	COMBINATION 21/										
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1950	1955	1949	1961	1923	1962	1955	1963	1963	1967
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	8.30	11.70		20.20	10.50	15.20	8.90	12.10	21.00	23.10
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		1,336.00		213.00		1,948.00		2,000.00		79.03
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		1,336.00		280.00		1,948.00		2,000.00		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	4,401.00		1,106.00		4,859.00		5,126.00			
93	COOLING PONDS ($1,000)									236.74	
94	COOLING TOWERS ($1,000)										

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	99.00		12.00		76.00		149.00		5.70	
96	COST OF CHEMICAL ADDITIVES ($1,000)	39.00				7.00		86.00		5.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	143.00		76.00		106.00		199.00		.70	
98	COST OF CHEMICAL ADDITIVES ($1,000)	24.00		9.00		20.00		46.00		4.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	CONN YANKEE ATOMIC PWR CO.	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	
4	NAME OF PLANT	HADDAM	59TH STREET	74TH STREET	ARTHUR KILL	ASTORIA	
5	UTILITY-PLANT CODE	112500-0100	113000-0100	113000-0200	113000-0300	113000-0400	
6	STATE	CONNECTICUT	NEW YORK	NEW YORK	NEW YORK	NEW YORK	
7	COUNTY	MIDDLESEX	NEW YORK	NEW YORK	RICHMOND	QUEENS	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	042 01	043 02	043 02	043 02	043 02	
9	PLANT CAPACITY (MW)	600.30	184.50	269.00	911.70	1,550.60	
10	ANNUAL GENERATION (MWH) [3]	3,537,700	556,200	597,200	4,465,200	6,924,800	
11	PLANT HEAT RATE (BTU/KWH) [3]		16,202	14,678	10,103	10,763	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)				1,000.90	1,223.10	
13	AVERAGE HEAT CONTENT (BTU/LB)				13,174	12,564	
14	AVERAGE SULFUR CONTENT (%)				1.01	.85	
15	AVERAGE ASH CONTENT (%)				9.42	12.14	
16	AVERAGE MOISTURE CONTENT (%)				4.66	5.74	
17	OIL: CONSUMPTION (1,000 BARRELS)		1,463.80	1,425.90	3,069.20	3,320.70	
18	AVERAGE HEAT CONTENT (BTU/GAL)		146,523	146,390	145,530	146,090	
19	AVERAGE SULFUR CONTENT (%)		.86	.84	.69	.65	
20	GAS: CONSUMPTION (1,000 MCF)		2,20			22,654.80	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,033			1,034	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.		6	3	2	5	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				1		
27	- NO. WITH COMBINATION PRECIPITATORS [4]				1	5	
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]		7.00 15.00	25.00	25.00	25.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH				99.00 99.50	97.00 99.00	
34	TESTED, LOW - HIGH						
35	EST., LOW - HIGH						
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)		.25	.24	.44	1.28	
40	SULFUR OXIDES (1,000 TONS)		4.22	4.02	26.92	27.62	
41	NITROGEN OXIDES (1,000 TONS)		3.23	3.14	15.78	22.75	
42	STACKS: - TOTAL NO.		3	1	1	8	
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]		245.85 528.35	518.90	518.25	315.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]		.03	.02	.06		
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]						
46	SOLD (1,000 TONS) [11]					10.60	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)				1,996.00		
52	COMBINATION PRECIPITATORS ($1,000) [4]				2,277.00	8,212.00	
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)		1,297.00	1,188.40	808.50	1,315.20	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)				162.00	93.00	
56	REVENUES FROM SALE OF ASH ($1,000)					8.00	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]				351.20	653.30	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					8.00	

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CONNECTICUT	R HUDSON	R EAST	B LOWER NY	R EAST	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	870.00	175.00	334.00	929.00	1,743.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	870.00	175.00	334.00	929.00	1,743.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	7.48	1.51	2.87	7.99	14.99	
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL JAN	JUL DEC	JUL DEC	JUL DEC	JUL DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	83.00 40.00	80.00 57.00	72.00 59.00	86.00 65.00	77.00 60.00	
67	AT OUTFALL, SUMMER - WINTER	104.50 61.75	88.00 65.00	77.00 63.00	94.00 82.00	88.00 71.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	5,830.00	8,000.00				
69	- WINTER	8,810.00	15,500.00				
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.90	4.00	1.00	.50	2.50	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		28.50	237.50	45.00	10.00	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		24.00	50.00	132.00	412.50	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST					
78	RECEIVING WATER BODY						
79	POND DISCHARGE [18]: PH, BOILER BLOWDOWN - ASH SETTLING						
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING						

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	1 600.00					
84	ONCE THROUGH COOLING (SALINE)		5 187.00	5 269.00	2 850.00	5 1,560.00	
85	COOLING POND(S)						
86	COOLING TOWER(S)						
87	COMBINATION [21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1965	1918 1968	1915 1962	1959 1969	1953 1962	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	22.00	7.00	7.00	13.00	13.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	830.00	589.00	760.00	1,010.00	2,718.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	870.00	589.00		1,010.00	2,108.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		860.20	955.29	2,676.03	4,618.59	
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.30	89.40	63.10	243.70	310.30	
96	COST OF CHEMICAL ADDITIVES ($1,000)	11.50	3.80	7.70	20.70	64.60	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.20	169.10	159.30	72.00	508.60	
98	COST OF CHEMICAL ADDITIVES ($1,000)	3.50	10.70	25.30	8.00	10.20	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	
NAME OF PLANT	EAST RIVER	HELL GATE	HUDSON AVENUE	INDIAN POINT	KENT AVENUE	
UTILITY-PLANT CODE	113000-0500	113000-0600	113000-0700	113000-0800	113000-0900	
STATE	NEW YORK	NEW YORK	NEW YORK	NEW YORK	NEW YORK	
COUNTY	NEW YORK	BRONX	KINGS	WESTCHESTER	KINGS	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	043 02	043 02	043 02	043 02	043 02	
PLANT CAPACITY (MW)	833.65	611.25	765.00	275.00	107.50	
ANNUAL GENERATION (MWH) [3]	2,841,800	1,779,400	2,253,400	327,806	179,500	
PLANT HEAT RATE (BTU/KWH) [3]	13,775	17,957	16,660		19,877	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	2,436.60	4,418.60	6,162.60	195.60		
AVERAGE HEAT CONTENT (BTU/GAL)	146,312	146,297	146,339	146,416		
AVERAGE SULFUR CONTENT (%)	.80	.79	.80	.81		
GAS: CONSUMPTION (1,000 MCF)	23,399.30	4,645.00	16.60		3,453.90	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,033	1,034	1,033		1,033	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	12	19	24	2	3	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS [4]	1					
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	15.00 20.00	20.00 27.00	25.00 30.00	20.00	28.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	97.00					
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.34	.74	1.64	.03		
SULFUR OXIDES (1,000 TONS)	6.54	11.70	16.54	.53		
NITROGEN OXIDES (1,000 TONS)	9.94	10.64	13.59	.43	.67	
STACKS: - TOTAL NO.	4	5	4	1	3	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	378.00 274.25	294.25 387.10	387.20	334.00	277.30	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	.01	.02	.02			
TOTAL ASH: COLLECTED (1,000 TONS) [10]						
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)	1,170.00					
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	648.90	172.00	255.00	665.10	165.10	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
SULFUR PRODUCTS REVENUES ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	P EAST		P EAST		R EAST		P HUDSON		R EAST			
AVERAGE RATE OF WITHDRAWAL (CFS)		1,230.00		744.00		798.00		345.00		94.00		
AVERAGE RATE OF DISCHARGE (CFS)		1,230.00		744.00		798.00		345.00		94.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	10.58		6.40		6.86		2.97		.81			
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL	OEC	JUL	OEC			JUL	OEC	JUL	OEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	75.00	54.00	78.00	58.00	74.00	53.00	76.00	44.00	76.00	56.00		
AT OUTFALL, SUMMER - WINTER	85.00	62.00	93.00	80.00	90.00	67.00	86.00	54.00	89.00	66.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER								8,000.00				
- WINTER								15,500.00				
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]												
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		128.00		13.50		73.00		24.00		12.00		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		138.00		13.50		112.00		19.50		51.00		
LIME (TONS), COOLING WATER - BOILER MAKEUP												
ALUM (TONS), COOLING WATER - BOILER MAKEUP												
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	255.00		61.50		33.50		4.50		69.50			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES		YES		YES		YES		YES			
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]							ST					
RECEIVING WATER BODY												
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING												
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING												
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING												

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)										
ONCE THROUGH COOLING (SALINE)	6 777.00	8 613.00	8 765.00	1 275.00	4 108.00					
COOLING PONDS)										
COOLING TOWERS)										
COMBINATIONS [21]										
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1927 1962	1921 1946	1924 1951	1962	1920 1938					
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00	12.00	12.00	14.00	10.00					
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,590.00	1,575.00	2,069.98	695.00	313.00					
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,590.00	1,575.00	2,330.00	695.00						

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	6,107.79	1,300.87	1,624.39	4,892.50	374.70	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	209.30	116.50	128.30	155.00	29.90	
COST OF CHEMICAL ADDITIVES ($1,000)	39.90	9.60	6.00	.70	10.80	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	222.60	122.80	182.70	28.30	41.70	
COST OF CHEMICAL ADDITIVES ($1,000)	45.20	10.40	25.00	8.70	12.90	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSUMERS POWER CO.		CONSUMERS POWER CO.	
4	NAME OF PLANT	RAVENSWOOD	SHERMAN CREEK	WATERSIDE	COBB		MORROW	
5	UTILITY-PLANT CODE	113000-1000	113000-1100	113000-1200	114500-0400		114500-0500	
6	STATE	NEW YORK	NEW YORK	NEW YORK	MICHIGAN		MICHIGAN	
7	COUNTY	QUEENS	NEW YORK	NEW YORK	MUSKEGON		KALAMAZOO	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	043 02	043 02	043 02	122 04		125 04	
9	PLANT CAPACITY (MW)	1,827.70	216.50	712.25	510.50		186.00	
10	ANNUAL GENERATION (MWH) [3]	7,065,592	540,700	2,409,700	2,901,900		1,153,400	
11	PLANT HEAT RATE (BTU/KWH) [3]	16,660	16,732	14,152	10,577		12,998	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	359.60			1,334.00			12
13	AVERAGE HEAT CONTENT (BTU/LB)	13,396			11,498			13
14	AVERAGE SULFUR CONTENT (%)	.81			3.63			14
15	AVERAGE ASH CONTENT (%)	7.88			11.63			15
16	AVERAGE MOISTURE CONTENT (%)	5.19			9.93			16
17	OIL: CONSUMPTION (1,000 BARRELS)	8,380.20	1,450.00	3,711.70	8.00			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	146,385	145,950	146,302	140,000			18
19	AVERAGE SULFUR CONTENT (%)	.85	.74	.78	.48			19
20	GAS: CONSUMPTION (1,000 MCF)	8,217.00	153.30	13,642.10			14,683.37	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,034	1,033	1,034			1,021	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	2	10	5		4	22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS						4	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				5			26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	2						27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00 25.00	20.00	20.00	15.00 18.00		20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					80.00	81.00	30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH							32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	99.00			99.00			33
34	TESTED, LOW - HIGH	99.30						34
35	EST., LOW - HIGH	99.00			98.00			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	1.33	.24	.62	2.64			39
40	SULFUR DIOXIDE (1,000 TONS)	29.61	3.60	9.71	94.91			40
41	NITROGEN OXIDES (1,000 TONS)	23.32	3.23	10.84	12.01		2.86	41
42	STACKS: - TOTAL NO.	3	1	3	5		2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	515.00	335.50	479.00	250.00 300.00		262.50	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	.13	.02	.02				44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]				155.60			45
46	SOLD (1,000 TONS) [11]	3.90			4.10			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						100.60	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)				3,640.00			51
52	COMBINATION PRECIPITATORS ($1,000) [4]	10,300.00						52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	1,516.70	29.50	598.40	276.00		100.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	96.70			204.80			55
56	REVENUES FROM SALE OF ASH ($1,000)	3.00			1.70			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	176.80			206.80			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	3.00			1.70			60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R EAST	R HARLEM	R EAST	L MUSKEGON		R KALAMAZOO	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,464.00	261.00	787.00	684.00		591.50	62
63	AVERAGE RATE OF DISCHARGE (CFS)	1,464.00	261.00	787.00	684.00		591.50	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	12.59	2.24	6.77	5.88		5.09	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL OEC	JUL OEC	JUL OEC	JUN DEC		JUN DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	74.00 55.00	77.00 52.00	78.00 57.00	77.00 49.00		78.00 38.00	66
67	AT OUTFALL, SUMMER - WINTER	86.00 65.00	92.00 64.00	91.00 76.00	93.00 67.00		95.00 65.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						535.00	68
69	- WINTER						676.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CT [16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.00	15.00	9.50	.38		.80	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	76.50	5.00	895.00	60.00		.08	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				15.23		11.70	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				1.63		4.68	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	337.50	52.50	171.50	120.95 14.33		8.32	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]				ST		ST	77
78	RECEIVING WATER BODY						R KALAMAZOO	78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING				10.50 7.70		10.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				10.00 3.00		15.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82	- ASH SETTLING				35,133.69			82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)				5 510.50		4 186.00	83
84	ONCE THROUGH COOLING (SALINE)	3 1,720.00	6 216.50	13 713.00				84
85	COOLING PONDS)							85
86	COOLING TOWERS)							86
87	COMBINATIONS [21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1963 1965	1915 1947	1919 1949	1948 1957		1939 1949	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00	10.00	10.00	11.68 16.50		15.00 16.50	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	2,149.00	782.00	870.00	903.00		404.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	2,149.00	391.00		903.00		405.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	9,176.81	385.16	1,349.80				92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)							94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	224.50	35.70	196.30	11.60		22.88	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	52.80	8.20	26.90	5.70		2.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	139.40	87.50	289.30	1.70		4.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	15.40	6.50	82.40	29.50		6.26	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	CONSUMERS POWER CO.	CONSUMERS POWER CO.	CONSUMERS POWER CO.	CONSUMERS POWER CO.	CONSUMERS POWER CO.	1
2							2
3							3
4	NAME OF PLANT	BIG ROCK POINT	KARN	ELM STREET	CAMPBELL	SAGINAW RIVER	4
5	UTILITY-PLANT CODE	114500-0600	114500-1200	114500-1300	114500-1900	114500-2500	5
6	STATE	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	6
7	COUNTY	CHARLEVOIX	BAY	CALHOUN	OTTAWA	SAGINAW	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	126 04	122 04	125 04	122 04	122 04	8
9	PLANT CAPACITY (MW)	75.00	530.00	30.00	650.00	80.00	9
10	ANNUAL GENERATION (MWH)[3]	362,400	3,590,300	88,600	4,273,900	156,600	10
11	PLANT HEAT RATE (BTU/KWH)[3]		9,061	14,975	9,061	21,141	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		1,431.76	50.74	1,688.00	136.66	12
13	AVERAGE HEAT CONTENT (BTU/LB)		11,344	13,112	11,367	12,094	13
14	AVERAGE SULFUR CONTENT (%)		2.22	1.00	3.21	1.50	14
15	AVERAGE ASH CONTENT (%)		13.51	7.00	13.76	11.47	15
16	AVERAGE MOISTURE CONTENT (%)		8.66	5.10	6.94	7.11	16
17	OIL: CONSUMPTION (1,000 BARRELS)		6.73	1.10	6.30		17
18	AVERAGE HEAT CONTENT (BTU/GAL)		140,000	140,000	140,000		18
19	AVERAGE SULFUR CONTENT (%)		.50	.30	.30		19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.		2	1	2	10	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS			1			25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2		2		26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]		17.00	4.50	18.00	30.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			80.00			30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH			80.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		95.00		95.00 98.00		33
34	TESTED, LOW - HIGH		66.90 78.30		87.90 93.30		34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		44.08	.60	19.16	10.19	39
40	SULFUR DIOXIDE (1,000 TONS)		62.31	1.00	106.21	4.02	40
41	NITROGEN OXIDES (1,000 TONS)		12.90	.46	15.21	1.02	41
42	STACKS: - TOTAL NO.	1	2	1	1	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	240.00	350.00	255.50	405.00	256.50	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		193.60	3.60	231.30	14.90	45
46	SOLD (1,000 TONS)[11]		24.80		19.50	2.30	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			19.00			50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		1,014.00		970.60		51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	60.00	522.00	25.00	312.00	72.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		123.20	13.00	123.60	46.30	55
56	REVENUES FROM SALE OF ASH ($1,000)		7.90		5.30	2.50	56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		130.30	13.00	126.80	46.30	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		7.90		5.30	2.50	60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L MICHIGAN	R SAGINAW	R BATTLE CREEK	L PIGEON	R SAGINAW	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	113.86	486.00	65.20	502.00	83.25	62
63	AVERAGE RATE OF DISCHARGE (CFS)	113.86	485.50	65.20	502.00	83.25	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.98	4.18 .32	.56	4.32	.72	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUN DEC	JUN DEC	JUN DEC	JUN DEC	JUN DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	58.00 39.00	85.00 37.00	75.00 32.00	75.00 42.00	79.00 35.00	66
67	AT OUTFALL, SUMMER - WINTER	75.00 56.00	93.00 62.00	93.00 50.00	90.00 72.00	93.00 50.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					700.00	68
69	- WINTER					1,395.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, (C)[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		1.10	.58	.03	2.04	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		260.30		42.36		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		44.00				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		5.00				74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.02	39.00 14.65	.90	14.56	6.30	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD (PS, ST, SW, OT)[18]	ST	ST	PS	ST	ST	77
78	RECEIVING WATER BODY	L MICHIGAN	B SAGINAW		L MICHIGAN		78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING		10.00 8.00	11.00 8.00	9.50 7.50	10.80	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		5.00	50.00	3.00 12.00	38.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING				316,000.00	25,000.00	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 75.00	2 530.00	1 30.00	2 650.00	4 103.50	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)						86
87	COMBINATIONS[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1962	1959 1961	1925	1962 1966	1928 1930	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	20.00	14.33	13.00	16.67 18.33		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	104.30	664.00	77.90	668.00	407.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	104.30	664.00	77.90	668	407.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)						92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	21.00	4.00	.20	3.90	2.70	95
96	COST OF CHEMICAL ADDITIVES ($1,000)		4.90	.25	5.00	1.70	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.00	4.10	.40	5.00	3.60	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	.03	14.60	.72	4.50	4.70	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	CONSUMERS POWER CO.	CONSUMERS POWER CO.	NEBRASKA PUB PWR DISTRICT	NEBRASKA PUB PWR DISTRICT	DAIRYLAND POWER COOPERATIVE		1
2								2
3								3
4	NAME OF PLANT	WEADOCK	WHITING	BLUFFS	SHELDON	ALMA		4
5	UTILITY-PLANT CODE	114500-2600	114500-2900	115000-1000	115000-1100	126000-0100		5
6	STATE	MICHIGAN	MICHIGAN	NEBRASKA	NEBRASKA	WISCONSIN		6
7	COUNTY	BAY	MONROE	SCOTTS BLUFF	LANCASTER	BUFFALO		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	122 04	124 04	146 10	145 10	128 07		8
9	PLANT CAPACITY (MW)	614.50	325.00	42.20	228.65	187.80		9
10	ANNUAL GENERATION (MWH) [3]	2,742,000	2,276,200	210,200	1,008,500	1,132,200		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11,060	9,885	13,565	10,665	10,430		11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	1,263.00	988.24		171.43	571.00		12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,772	11,380		12,173	10,321		13
14	AVERAGE SULFUR CONTENT (%)	1.46	2.79		3.73	3.71		14
15	AVERAGE ASH CONTENT (%)	12.02	14.41		13.13	16.51		15
16	AVERAGE MOISTURE CONTENT (%)	7.46	6.67		5.61	11.04		16
17	OIL: CONSUMPTION (1,000 BARRELS)	104.00	3.00	14.87		3.76		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	140,000	150,373		140,000		18
19	AVERAGE SULFUR CONTENT (%)	.30	.50	.42		.10		19
20	GAS: CONSUMPTION (1,000 MCF)			2,598.96	5,511.15			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,060	1,005			21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	8	3	4	2	5		22
23	- NO. OF WET BOTTOM				2			23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS	8	3		1	5		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS							26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00 25.00	20.00	10.00 15.00	16.00	20.00 25.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	80.00 91.00	85.00 86.00		75.00	77.00 90.00		30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH	80.00 91.00	85.00 86.00		60.00	77.00 90.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH							33
34	TESTED, LOW - HIGH							34
35	EST., LOW - HIGH							35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	17.79	17.67		1.66	11.77		39
40	SULFUR OIOXIDE (1,000 TONS)	36.45	54.04	.02	12.53	41.52		40
41	NITROGEN OXIDES (1,000 TONS)	11.66	8.89	.54	5.98	5.15		41
42	STACKS: - TOTAL NO.	5	3	4	2	3		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	244.00 272.00	297.00	65.00 99.50	176.00	189.50 210.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	145.60	142.70		20.61	79.90		45
46	SOLD (1,000 TONS) [11]		.70					46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	454.10	216.50		60.00	104.80		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)							51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	450.00	209.00	25.92	133.20	140.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	211.50	67.00		18.86	58.50		55
56	REVENUES FROM SALE OF ASH ($1,000)		1.30					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	211.50	67.00		18.86	108.50		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		1.30					60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SAGINAW	L ERIE	W	W	R MISSISSIPPI		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	910.00	351.00	23.40	4.72	182.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	910.00	351.00	23.40	2.42	182.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	7.83	3.02	.20	2.30	1.57		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUN OEC	JUN OEC	JUL OEC	JUL OEC	AUG NOV		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	76.00 34.00	73.00 35.00			77.00 45.00		66
67	AT OUTFALL, SUMMER - WINTER	92.00 62.00	89.00 56.00			94.00 58.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					9,766.00		68
69	- WINTER					40,579.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.67	.20		2.00 .05	.10		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.36	.10	.01	6.98	.03		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		7.00		1,290.60 46.50			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		.90		76.20 .55	4.50		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	45.50	44.48		8.00			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES YES	YES YES	YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	OT	PS		77
78	RECEIVING WATER BODY		L ERIE					78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	10.30 8.00	10.50 8.00					79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	15.00	15.00					80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82	- ASH SETTLING							82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	8 614.50	3 325.00	4 42.40		5 187.90		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING PONDS							85
86	COOLING TOWERS				2 228.00			86
87	COMBINATIONS [21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1940 1958	1952 1953	1940 1963	1959 1965	1947 1959		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	11.70 16.50	12.10 15.00	26.00	17.80 18.40	18.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,196.00	477.00	60.20	267.40	280.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,212.00	477.00			1,841.50		91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)					1,085.30		92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)				2,301.00			94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	30.90	.46		23.00	29.80		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	12.10	2.27	16.44	80.20			96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.00	4.15		35.70	16.90		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.67	5.01		5.40	6.30		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	DAIRYLAND POWER COOPERATIVE	DAIRYLAND POWER COOPERATIVE	DALLAS POWER & LIGHT CO.	DALLAS POWER & LIGHT CO.	DALLAS POWER & LIGHT CO.		
NAME OF PLANT	GENOA #3	STONEMAN	DALLAS	MOUNTAIN CREEK	NORTH LAKE		
UTILITY-PLANT CODE	126000-0450	126000-0500	126500-0100	126500-0200	126500-0300		
STATE	WISCONSIN	WISCONSIN	TEXAS	TEXAS	TEXAS		
COUNTY	VERNON	GRANT	DALLAS	DALLAS	DALLAS		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	128 07	068 07	215 12	215 12	215 12		
PLANT CAPACITY (MW)	384.00	51.80	223.80	989.70	708.60		
ANNUAL GENERATION (MWH) [3]	1,780,700	200,500	452,700	3,119,600	2,968,388		
PLANT HEAT RATE (BTU/KWH) [3]	10,430	11,582	13,108	10,316	10,329		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	762.10	117.20					
AVERAGE HEAT CONTENT (BTU/LB)	9,382	9,864					
AVERAGE SULFUR CONTENT (%)	3.32	3.54					
AVERAGE ASH CONTENT (%)	21.30	19.48					
AVERAGE MOISTURE CONTENT (%)	11.40	10.72					
OIL: CONSUMPTION (1,000 BARRELS)	10.08	1.89	1.63	5.81	8.11		
AVERAGE HEAT CONTENT (BTU/GAL)	140,000	140,000	146,071	146,071	146,071		
AVERAGE SULFUR CONTENT (%)	.10	.10	.66	.73	.60		
GAS: CONSUMPTION (1,000 MCF)			5,509.49	31,019.37	27,563.82		
AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,075	1,037	1,111		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	2	9	8	3		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS		2					
- NO. WITH ELECTROSTATIC PRECIPITATORS	1						
- NO. WITH COMBINATION PRECIPITATORS [4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	20.00	10.00	8.00 19.00	8.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		84.00					
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH		85.00					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	99.00						
TESTED, LOW - HIGH							
EST., LOW - HIGH	79.00						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	28.98	2.91					
SULFUR DIOXIDE (1,000 TONS)	49.59	8.13		.01	.02		
NITROGEN OXIDES (1,000 TONS)	6.88	1.06	1.08	6.06	5.39		
STACKS: - TOTAL NO.	1	2	7	8	6		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	500.00	138.00	137.00 361.00	142.00 167.00	164.00 193.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
TOTAL ASH: COLLECTED (1,000 TONS) [10]	132.80	19.60					
SOLD (1,000 TONS) [11]							
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)		45.50					
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	811.00						
ELECTROSTATIC PRECIPITATORS ($1,000)							
COMBINATION PRECIPITATORS ($1,000) [4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	605.00	24.40	203.00	200.00	94.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	62.10	20.55					
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	223.70	20.55					
TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	R MISSISSIPPI	W	O SURFACE	M		
AVERAGE RATE OF WITHDRAWAL (CFS)	322.00	62.00	1.60	766.00	758.00		
AVERAGE RATE OF DISCHARGE (CFS)	322.00	62.00		761.00	753.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	2.77 .53		1.60	5.00	5.00		
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL JAN	AUG MAR		AUG JAN			
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 44.00	83.00 45.00		94.00 57.00			
AT OUTFALL, SUMMER - WINTER	98.00 76.00	95.00 58.00		94.00 57.00			
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	18,747.00	17,665.00					
- WINTER	16,150.00	33,810.00		78.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.10	.04	5.40 .95	2.10	1.35		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	135.10	1.55		374.85	192.50		
LIME (TONS), COOLING WATER - BOILER MAKEUP					6.65		
ALUM (TONS), COOLING WATER - BOILER MAKEUP		.28					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.00		27.00	12.00	2.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES YES	YES YES	YES YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	PS	PS	PS	OT		
RECEIVING WATER BODY [19]					O N. LAKE RESRVR		
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING				8.00	8.00		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				20.00	3.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				1,000,000.00	9,300.00		
- ASH SETTLING							

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	1 346.00	2 51.80					
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)			3 70.00	6 989.70	3 708.60		
COOLING TOWER(S)			2 153.80				
COMBINATIONS [21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1969	1951 1952	1923 1954	1938	1959		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	17.30	16.00 16.93	15.00 16.00	9.00 20.00	14.00 16.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	362.00	85.90	257.00	1,578.00	898.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	378.00	94.90					

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,168.00	413.20					
COOLING PONDS ($1,000)			495.00	4,333.00	3,555.00		
COOLING TOWERS ($1,000)			1,405.00				

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	20.30	8.30	152.00	61.00	30.00		
COST OF CHEMICAL ADDITIVES ($1,000)	.30		21.00	2.00	1.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	64.60	9.30	21.00	22.00	15.00		
COST OF CHEMICAL ADDITIVES ($1,000)	22.20	2.10	1.00	31.00	15.00		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	DALLAS POWER & LIGHT CO.		DALLAS POWER & LIGHT CO.		ATLANTIC CITY ELECTRIC CO.		DELMARVA POWER & LIGHT CO. OF MD.		DELMARVA POWER & LIGHT CO.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	PARKDALE		LAKE HUBBARD		DEEPWATER		VIENNA		DELAWARE CITY		4
5	UTILITY-PLANT CODE	5	126500-0400		126500-0500		128500-0100		129500-0300		130500-0100		5
6	STATE	6	TEXAS		TEXAS		NEW JERSEY		MARYLAND		DELAWARE		6
7	COUNTY	7	DALLAS		DALLAS		SALEM		DORCHESTER		NEW CASTLE		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	215 12		215 12		045 02		114 02		045 02		8
9	PLANT CAPACITY (MW)	9	340.60		396.50		308.30		92.50		130.00		9
10	ANNUAL GENERATION (MWH) [3]	10	831,600		558,200		1,600,100		391,100		214,200		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	12,001		12,740		9,837		16,292		9,863		11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12					.50		212.00		494.61		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13					13,017		12,427		14,090		13
14	AVERAGE SULFUR CONTENT (%)	14					3.20		2.12		6.47		14
15	AVERAGE ASH CONTENT (%)	15					10.20		14.29		.34		15
16	AVERAGE MOISTURE CONTENT (%)	16					3.30		5.78		.51		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	5.01		.04		4,224.49		178.00		345.45		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	146,071		139,000		148,991		144,953		153,505		18
19	AVERAGE SULFUR CONTENT (%)	19	.43		.25		1.36		1.23		3.58		19
20	GAS: CONSUMPTION (1,000 MCF)	20	9,767.23		6,973.48		3,279.91				4,425.87		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,018		1,021		1,034				1,089		21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	3		1		8		6		4		22
23	- NO. OF WET BOTTOM	23					5				4		23
24	- NO. WITH FLY ASH REINJECTION	24									4		24
25	- NO. WITH MECHANICAL PRECIPITATORS	25					7		5		3		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					1						26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27									1		27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	7.00	8.00	8.00		7.00	30.00	15.00	22.00	20.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30					82.00	88.00	50.00	95.00			30
31	TESTED, LOW - HIGH	31					64.50	84.10	38.20	70.00			31
32	ESTIMATED, LOW - HIGH	32							50.00	75.00	75.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33						90.00			99.30		33
34	TESTED, LOW - HIGH	34						90.70			99.20		34
35	EST., LOW - HIGH	35											35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39					.12		8.15		.35		39
40	SULFUR DIOXIDE (1,000 TONS)	40	.01				19.31		9.54		66.87		40
41	NITROGEN OXIDES (1,000 TONS)	41	1.92		1.36		9.96		2.22		9.04		41
42	STACKS: - TOTAL NO.	42	6		1		6		6		1		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	141.00	149.00	156.00		175.20	225.50	133.00		500.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44						.12					44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45						.05	25.00		7.00		45
46	SOLD (1,000 TONS) [11]	46									.20		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50						373.50	87.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51						218.20					51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52											52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	48.00		47.00			313.70	62.00		265.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55							73.00		10.67		55
56	REVENUES FROM SALE OF ASH ($1,000)	56									60.00		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59							73.00		10.67		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60									60.00		60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, D, C, W, M & O EXPL. IN FOOTNOTES)	61	CW WHITE ROCK		R TRINITY		P DELAWARE		P NANTICOKE		R DELAWARE		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		3.00		306.00		400.00		211.00		150.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63		.80		305.00		400.00		211.00		150.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64		2.20		1.00	3.44		1.81		1.29		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65			AUG		SEP	OEC	JUL	JAN	JUL	JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66			89.00		82.00	51.00	80.00	40.00	84.00	40.00	66
67	AT OUTFALL, SUMMER - WINTER	67			98.00		94.00	65.00	90.00	50.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68						362,000.00		20,000.00		5,000.00	68
69	- WINTER	69						362,000.00		20,000.00		12,000.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]	70			H								70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	12.65	1.65		.30		1.30		.35		2.24	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		68.27		14.67				4.15		811.28	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73				3.90		7.65		.13		43.45	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	23.00		2.00		57.00					25.67	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES	YES	YES	YES		YES		YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	PS		OT		ST		PS		OT		77
78	RECEIVING WATER BODY	78			L RAY HUBBARD		R DELAWARE						78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79			8.00		9.00						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80			70.00		5.00		400.00	5,000.00			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81						27,200.00		20.00			81
82	- ASH SETTLING	82								3,000.00			82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83											83
84	ONCE THROUGH COOLING (SALINE)	84					4	261.10	7	94.50	3	130.00	84
85	COOLING POND(S)	85			1	396.50							85
86	COOLING TOWER(S)	86	3	340.60									86
87	COMBINATIONS [21]	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1953	1968		1970	1930	1958	1928	1951	1956	1961	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	17.00	21.00		19.00	10.00	12.00	16.00	18.00		13.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		432.00		468.00		620.00		211.00		154.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)	91						620.00		211.00		154.00	91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92						2,156.80		519.00			92
93	COOLING PONDS ($1,000)	93				2,883.00							93
94	COOLING TOWERS ($1,000)	94		3,447.00									94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95		88.00		11.00				5.00			95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		17.00		1.00		6.10		1.00			96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		12.00		13.00		50.64		3.00			97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		6.00		2.00		1.50		1.00			98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	DELMARVA POWER & LIGHT CO.		DELMARVA POWER & LIGHT CO.		DENTON, CITY OF		DETROIT PUBLIC LIGHTING COMM.		DUKE POWER CO.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	EDGE MOOR		INDIAN RIVER		DENTON		MISTERSKY		ALLEN		4
5	UTILITY-PLANT CODE	5	130500-0200		130500-0300		I32000-0100		I36000-0100		139500-0200		5
6	STATE	6	DELAWARE		DELAWARE		TEXAS		MICHIGAN		NORTH CAROLINA		6
7	COUNTY	7	NEW CASTLE		SUSSEX		DENTON		WAYNE		GASTON		7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	045 02		046 02		215 12		123 04		167 03		8
9	PLANT CAPACITY (MW)	9	389.80		340.00		123.80		174.00		1,155.00		9
10	ANNUAL GENERATION (MWH) 3/	10	2,525,900		I,912,600		300,300		645,000		8,301,600		10
11	PLANT HEAT RATE (BTU/KWH) 3/	11	I0,340		9,840		I2,808		10,921		9,228		11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12	666.00		767.00				308.20		3,228.40		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,379		11,823				11,514		11,866		13
14	AVERAGE SULFUR CONTENT (%)	14	2.38		2.38				1.42		1.00		14
15	AVERAGE ASH CONTENT (%)	15	11.73		14.71				12.90		14.51		15
16	AVERAGE MOISTURE CONTENT (%)	16	7.14		6.54				7.40		5.94		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	1,322.00		116.00								17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	150,000		137,635								18
19	AVERAGE SULFUR CONTENT (%)	19	2.03		.20								19
20	GAS: CONSUMPTION (1,000 MCF)	20	1,488.00				3,344.21						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,034				1,087						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	4		3		4		10		5		22
23	- NO. OF WET BOTTOM	23							2				23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	3								2		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	1								3		26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27			3				2				27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	20.00		20.00	.80	15.00	16.60	20.00		20.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	72.00 83.00								85.00		30
31	TESTED, LOW - HIGH	31	56.90 65.90								81.60		31
32	ESTIMATED, LOW - HIGH	32	72.00 83.00								81.60		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	33	95.00	98.00	99.50			96.50	97.70		97.00		33
34	TESTED, LOW - HIGH	34			98.60					96.90	97.00		34
35	EST., LOW - HIGH	35	95.00	98.00	99.50			96.50	97.70		87.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	39	8.73		1.35				4.56		58.23		39
40	SULFUR DIOXIDE (1,000 TONS)	40	40.06		35.86				8.58		63.27		40
41	NITROGEN OXIDES (1,000 TONS)	41	9.19		7.16		.70		4.41		29.05		41
42	STACKS: - TOTAL NO.	42	4		3		4		6		5		42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	220.00	230.00	345.00	47.00	100.00		195.00		252.25		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	78.00		148.70				32.48		420.50		45
46	SOLD (1,000 TONS) 11/	46	15.00								5.00		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50	253.00								178.00		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51	200.00								1,335.00		51
52	COMBINATION PRECIPITATORS ($1,000) 4/	52			696.00				211.20				52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	281.00		686.00				23.50		594.60		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	95.00		32.31				38.30		85.50		55
56	REVENUES FROM SALE OF ASH ($1,000)	56	12.00								2.00		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	59	95.00		32.31				94.10		85.50		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60	12.00								2.00		60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R DELAWARE		R INDIAN		M		R DETROIT		L WYLIE		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	630.00		585.00		I.I9		210.I2		224.80		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	630.00		585.00		.24		210.I2		224.80		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	5.42		5.03		.95		I.81		I.93		64
65	PEAK LOAD MONTH : SUMMER - WINTER 5/	65	AUG JAN		JUL JAN		AUG DEC		AUG DEC		JUL NOV		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	82.00 41.00		91.00 38.00				7I.60 36.I0		87.00 57.00		66
67	AT OUTFALL, SUMMER - WINTER	67	90.00 59.00		99.00 48.00				8I.60 46.I0		I08.00 86.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	5,000.00		2,507.00		.23		210,000.00				68
69	- WINTER	69	I2,000.00		2,507.00		.I7		210,000.00				69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 15/	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	.50		.25	6.01	.03		.2I				71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	3.45		34.50		.0I		I3.69		.03		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73											73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	60.00	52.00		9.70							75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 16/	76	YES	YES		YES	YES	YES	YES		YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	77	ST	ST		PS		PS		ST/OT			77
78	RECEIVING WATER BODY	78	D DRAIN FIELD			M				L WYLIE			78
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	79	9.00	3.60		7.60		I0.90			I0.70		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	I,I50.00			8.00		I,500.00					80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81					55.00		668.90				81
82	- ASH SETTLING	82	475.40		2,800.00								82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	83	4 357.00					6	174.00	5	I,155.00		83
84	ONCE THROUGH COOLING (SALINE)	84		3	340.00								84
85	COOLING POND(S)	85											85
86	COOLING TOWER(S)	86				4	I23.80						86
87	COMBINATIONS 21/	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1951 1966	1957 1970		1955 1966		1927 1956		1957 1961			88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	89		I2.00 I3.50		I2.00 I6.00			I0.00	I7.70 I8.00			89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	584.00	585.00		I02.00			443.50		I,2I4.I0		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	694.00	585.00					2I2.50		I,334.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	2,533.00		385.00						4,000.00		92
93	COOLING PONDS ($1,000)	93											93
94	COOLING TOWERS ($1,000)	94					419.00						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	86.50	14.60		II.30		7.52					95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	6.50	9.20		9.60		I.20					96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	59.00	24.30		I2.20		22.89					97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	I2.50	I5.30		.70		2.79		6.00			98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.		
NAME OF PLANT	BUCK	CLIFFSIDE	OAN RIVER	LEE	MARSHALL		
UTILITY-PLANT CODE	139500-0500	139500-0800	139500-1000	139500-1900	139500-2200		
STATE	NORTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA	SOUTH CAROLINA	NORTH CAROLINA		
COUNTY	ROWAN	CLEVELAND	ROCKINGHAM	ANDERSON	CATAWBA		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	167 03	165 03	136 03	202 03	165 03		
PLANT CAPACITY (MW)	533.00	210.00	290.00	345.00	2,000.00		
ANNUAL GENERATION (MWH) [3]	2,674,400	1,321,700	1,985,200	2,401,300	12,597,300		
PLANT HEAT RATE (BTU/KWH) [3]	11,116	11,283	10,010	9,994	8,709		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,218.00	608.91	818.62	697.89	4,616.16		
AVERAGE HEAT CONTENT (BTU/LB)	12,204	12,246	12,137	11,810	11,859		
AVERAGE SULFUR CONTENT (%)	1.00	1.00	1.00	1.00	1.00		
AVERAGE ASH CONTENT (%)	13.48	13.86	13.54	13.74	14.08		
AVERAGE MOISTURE CONTENT (%)	5.91	5.62	5.72	6.85	6.23		
OIL: CONSUMPTION (1,000 BARRELS)					31.58		
AVERAGE HEAT CONTENT (BTU/GAL)					140,000		
AVERAGE SULFUR CONTENT (%)					.25		
GAS: CONSUMPTION (1,000 MCF)				7,277.24			
AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,033			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	9	4	3	3	4		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS			1	1	2		
- NO. WITH ELECTROSTATIC PRECIPITATORS	2	2		2	2		
- NO. WITH COMBINATION PRECIPITATORS [4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	19.00 23.00	22.80	19.00 22.00	22.00	18.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			85.00	85.00	85.00		
TESTED, LOW - HIGH			74.80	89.10	90.40		
ESTIMATED, LOW - HIGH			70.00	81.60	85.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	95.00	95.00		99.00	99.00		
TESTED, LOW - HIGH	83.10	87.60		99.10	99.00		
EST., LOW - HIGH	88.00	88.00		99.00	90.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	67.43	33.07	60.48	8.06	68.37		
SULFUR DIOXIDE (1,000 TONS)	23.82	11.93	16.05	13.68	90.50		
NITROGEN OXIDES (1,000 TONS)	10.94	5.48	7.37	7.70	41.61		
STACKS: - TOTAL NO.	9	4	4	6	4		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	176.30 215.50	154.00 159.00	180.00 188.00	213.00	280.50		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
TOTAL ASH: COLLECTED (1,000 TONS) [10]	101.50	47.90	57.20	95.90	594.50		
SOLD (1,000 TONS) [11]			2.90		3.50		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			93.00	97.00	444.00		
ELECTROSTATIC PRECIPITATORS ($1,000)	1,248.00	880.00		1,716.00	1,410.00		
COMBINATION PRECIPITATORS ($1,000) [4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	53.28	38.14	57.98	56.82	1,095.80		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55.40	22.00	18.82	64.90	131.95		
REVENUES FROM SALE OF ASH ($1,000)			6.13		6.88		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	55.40	22.00	18.82	64.90	131.95		
TOTAL BYPRODUCT SALES REVENUES ($1,000)			6.13		6.88		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L HIGH ROCK	R BROAD	R OAN	R SALUDA	L NORMAN		
AVERAGE RATE OF WITHDRAWAL (CFS)	135.90	85.30	124.10	111.10	1,543.10		
AVERAGE RATE OF DISCHARGE (CFS)	135.90	85.30	124.10	109.70	1,543.10		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.17	.73	1.07	1.40	13.27		
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL NOV	JUL DEC	JUL NOV	JUL NOV	AUG NOV		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 61.00	83.00 54.00	84.00 60.00	86.00 52.00	60.00 55.00		
AT OUTFALL, SUMMER - WINTER	101.00 80.00	78.00 76.00	101.00 79.00	104.00 77.00	83.00 76.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER							
- WINTER							
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.50						
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP			89.65	.03			
LIME (TONS), COOLING WATER - BOILER MAKEUP							
ALUM (TONS), COOLING WATER - BOILER MAKEUP			7.50				
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	61.00		89.65				
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST/OT	ST/OT	OT	ST/OT	OT		
RECEIVING WATER BODY	R YADKIN	R BROAD	R OAN	R SALUDA	L NORMAN		
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING							
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	9.00	8.80		7.50	8.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
- ASH SETTLING							

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	6 440.00	4 210.00	3 290.00		4 2,000.00		
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)							
COOLING TOWER(S)				3 355.00			
COMBINATIONS [21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1926 1953	1940 1948	1949 1955	1951 1958	1965 1970		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	11.70 13.90	13.40 14.20	14.20 16.20	14.90 16.80	17.00 17.60		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	900.00	407.60	433.10	494.70	2,157.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	900.00	416.00	441.00	363.00	3,299.50		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	727.00	359.00	855.00	552.00	3,539.00		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)				951.00			

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)							
COST OF CHEMICAL ADDITIVES ($1,000)	6.70		28.00				

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)							
COST OF CHEMICAL ADDITIVES ($1,000)	1.30		4.30	1.10	3.10		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	DUKE POWER CO.		DUKE POWER CO.		DUKE POWER CO.		DUQUESNE LIGHT CO.		DUQUESNE LIGHT CO.	
4	NAME OF PLANT	RIVERBEND		TIGER		GREENWOOD		COLFAX		ELRAMA	
5	UTILITY-PLANT CODE	139500-2600		139500-3000		139500-3200		140000-0100		140000-0200	
6	STATE	NORTH CAROLINA		SOUTH CAROLINA		SOUTH CAROLINA		PENNSYLVANIA		PENNSYLVANIA	
7	COUNTY	GASTON		SPARTANBURG		GREENWOOD		ALLEGHENY		WASHINGTON	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	167	03	202	03	203	03	197	05	197	05
9	PLANT CAPACITY (MW)	751.00		30.00		36.00		262.50		510.00	
10	ANNUAL GENERATION (MWH) [3]	4,123,200		43,800		21,700		708,600		3,110,700	
11	PLANT HEAT RATE (BTU/KWH) [3]	10,944		31,279		14,406		23,806		10,753	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	1,555.72		50.10		11.09		701.50		1,500.88	
13	AVERAGE HEAT CONTENT (BTU/LB)	11,972		13,700		13,519		12,015		11,131	
14	AVERAGE SULFUR CONTENT (%)	1.00		1.00		.65		1.60		1.89	
15	AVERAGE ASH CONTENT (%)	13.89		6.00		8.10		14.80		18.83	
16	AVERAGE MOISTURE CONTENT (%)	6.05		4.00		3.74		4.94		6.03	
17	OIL: CONSUMPTION (1,000 BARRELS)	100.51									
18	AVERAGE HEAT CONTENT (BTU/GAL)	139,297									
19	AVERAGE SULFUR CONTENT (%)	.25									
20	GAS: CONSUMPTION (1,000 MCF)	871.80				13.47					
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,032				1,033					

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	14		8		1		22		4	
23	- NO. OF WET BOTTOM					1					
24	- NO. WITH FLY ASH REINJECTION										
25	- NO. WITH MECHANICAL PRECIPITATORS							6			
26	- NO. WITH ELECTROSTATIC PRECIPITATURS	4						2			
27	- NO. WITH COMBINATION PRECIPITATORS [4]									4	
28	- NO. WITH DESULFURIZATION SYSTEMS										
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	44.00	40.00		10.00		25.00	50.00	18.00	25.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							91.60	92.20		
31	TESTED, LOW - HIGH							80.00	82.00		
32	ESTIMATED, LOW - HIGH							63.00	85.00		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	94.50						93.00	95.00	97.90	98.30
34	TESTED, LOW - HIGH	87.90							83.00		91.80
35	EST., LOW - HIGH	87.00							78.00	93.80	98.00
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH										
37	TESTED, LOW - HIGH										
38	ESTIMATED, LOW - HIGH										

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	50.66		1.95		.09		42.32		11.38	
40	SULFUR DIOXIDE (1,000 TONS)	30.58		.98		.14		22.00		55.60	
41	NITROGEN OXIDES (1,000 TONS)	14.39		.38		.31		5.68		13.51	
42	STACKS: - TOTAL NO.	18		2		1		6		4	
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	71.08	226.75	217.00		165.00		355.00	362.00	272.00	292.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]										
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	165.60		2.90		.44		69.00		271.20	
46	SOLD (1,000 TONS) [11]							63.90			
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)										
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]										
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)										
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							402.50			
51	ELECTROSTATIC PRECIPITATORS ($1,000)	2,709.00						319.20			
52	COMBINATION PRECIPITATORS ($1,000) [4]									1,803.50	
53	DESULFURIZATION SYSTEMS ($1,000)										
54	STACKS ($1,000)	108.72						515.50		352.80	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	113.80		34.20		.55		12.27		618.07	
56	REVENUES FROM SALE OF ASH ($1,000)							36.31			
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)										
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)										
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	117.80		34.20		.55		189.78		914.62	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							36.31			

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L MTN. ISLAND		R MIDDLE TIGER		OW PONDS		R ALLEGHENY		R MONONGAHELA	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	153.70		1.86		.38		499.00		588.70	
63	AVERAGE RATE OF DISCHARGE (CFS)	153.70		1.86				498.80		587.90	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.32				.38		4.29	.20	5.06	.80
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL	DEC	JUL	JAN	JUL	DEC	JUL	JAN	JUL	JAN
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00	57.00	96.00	43.00	60.00	40.00	76.00	38.00	85.00	35.00
67	AT OUTFALL, SUMMER - WINTER	97.00	68.00	101.00	62.00			86.00	48.00	102.00	68.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER								9,075.00		5,469.00
69	- WINTER								28,920.00		8,984.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]										
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.01				.55		6.19		1.87
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP						.40		.39		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP										
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP										
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP							34.00		16.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES			YES	YES		YES		YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [16]	ST/OT		ST		PS		PS		ST	
78	RECEIVING WATER BODY	L MTN. ISLAND		R MIDDLE TIGER							
79	POND DISCHARGE: [16] PH, BOILER BLOWDOWN - ASH SETTLING	9.40				6.80				9.00	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING									60.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN										
82	- ASH SETTLING					11.60				343,000.00	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	7	631.00					4	262.50	4	425.00
84	ONCE THROUGH COOLING (SALINE)										
85	COOLING PONDS										
86	COOLING TOWERS					1	36.00				
87	COMBINATIONS [21]			2	30.00						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1929	1954	1924		1956		1921	1927	1952	1960
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	12.60	15.70			20.00			12.00		20.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		1,076.20		1.86		67.20		629.00		785.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)		1,100.00		1.87						

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	383.00						751.60		1,981.00	
93	COOLING PONDS ($1,000)										
94	COOLING TOWERS ($1,000)										

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)					46.00					
96	COST OF CHEMICAL ADDITIVES ($1,000)					4.30		3.37		1.58	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)					9.20					
98	COST OF CHEMICAL ADDITIVES ($1,000)	4.00				.40		12.50		3.15	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	DUQUESNE LIGHT CO.	DUQUESNE LIGHT CO.	DUQUESNE LIGHT CO.	DUQUESNE LIGHT CO.	EAST KENTUCKY RURAL ELECTRIC COOP.	1
2							2
3							3
4	NAME OF PLANT	PHILLIPS	REED	SHIPPINGPORT	CHESWICK	COOPER	4
5	UTILITY-PLANT CODE	140000-U300	140000-0400	140000-0500	140000-0600	141500-0100	5
6	STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	KENTUCKY	6
7	COUNTY	ALLEGHENY	ALLEGHENY	BEAVER	ALLEGHENY	PULASKI	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	197 05	197 05	197 55	197 05	105 05	8
9	PLANT CAPACITY (MW)	411.00	180.00	100.00	565.00	354.00	9
10	ANNUAL GENERATION (MWH) [3]	2,352,100	790,700	316,800	1,052,100	1,578,400	10
11	PLANT HEAT RATE (BTU/KWH) [3]	11,674	17,843		9,183	9,953	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	1,246.47	575.60		448.51	689.98	12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,997	12,255		11,146	11,060	13
14	AVERAGE SULFUR CONTENT (%)	1.79	1.76		1.94	2.58	14
15	AVERAGE ASH CONTENT (%)	18.89	14.70		19.11	15.49	15
16	AVERAGE MOISTURE CONTENT (%)	6.09	3.56		5.06	6.57	16
17	OIL: CONSUMPTION (1,000 BARRELS)					3.64	17
18	AVERAGE HEAT CONTENT (BTU/GAL)					138,600	18
19	AVERAGE SULFUR CONTENT (%)					.12	19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6	6		1	2	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION					2	24
25	- NO. WITH MECHANICAL PRECIPITATORS				1		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	6					27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	26.00	37.00		18.00	20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					81.00 85.00	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH					81.00 85.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	95.00 98.20			99.50		33
34	TESTED, LOW - HIGH	86.40			98.07		34
35	EST., LOW - HIGH	78.00 97.00					35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	24.06	55.00		1.41	16.45	39
40	SULFUR OIOXIOE (1,000 TONS)	43.73	19.86		17.05	35.83	40
41	NITROGEN OXIOES (1,000 TONS)	11.22	4.32		4.04	6.39	41
42	STACKS: - TOTAL NO.	6	2		1	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	250.00 300.50	250.00		750.00	260.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	220.60	236.80		87.00	89.70	45
46	SOLD (1,000 TONS) [11]		236.80			89.70	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					170.00	49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				1,473.00		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000) [4]	2,485.60					52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	310.80	88.40		1,313.00	107.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	393.12	68.57		.13	370.70	55
56	REVENUES FROM SALE OF ASH ($1,000)		47.36				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	767.70	208.97		81.87	370.70	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		47.36				60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	R OHIO	R OHIO	R ALLEGHENY	R CUMBERLAND	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	618.70	487.50	199.00	461.20	355.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	617.20	486.40	198.70	460.00	351.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	5.32 1.50	4.19 1.10	1.71 .30	3.97 1.20	3.05 4.00	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL JAN	JUL JAN	JUL JAN	JUL JAN	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 34.00	78.00 35.00	79.00 33.00		90.00 63.00	66
67	AT OUTFALL, SUMMER - WINTER	89.00 53.00	88.00 48.00	91.00 54.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	17,564.00	17,570.00	19,168.00	9,075.00	351.00	68
69	- WINTER	40,435.00	40,450.00	46,510.00	28,920.00	351.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]				H		70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.56	3.09	.36	.32	.52	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP						72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP					5.11	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					15.51	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	70.00	27.38	18.00	.78		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [16]	PS	OT	ST	PS	OT	77
78	RECEIVING WATER BODY		R OHIO			R CUMBERLAND	78
79	POND DISCHARGE [18]: PH, BOILER BLOWDOWN - ASH SETTLING	8.00					79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	50.00					80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING	328,000.00					82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	4 315.00	3 180.00	1 100.00	1 565.00	2 354.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS(S)						85
86	COOLING TOWER(S)						86
87	COMBINATIONS [21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1942 1956	1930 1941	1956	1970	1963 1968	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	20.00	15.00	25.00	11.00	10.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	817.00	590.00	254.00	553.50	355.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)				553.50	355.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,113.40	913.90	1,562.70	4,248.00	4,014.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)				742.00		94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)						95
96	COST OF CHEMICAL ADDITIVES ($1,000)	6.93	3.25	1.78			96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)						97
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.67	9.54	.71	13.50	11.50	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	EAST KENTUCKY RURAL ELECTRIC COOP.	EL PASO ELECTRIC CO.	EL PASO ELECTRIC CO.	ELECTRIC ENERGY INC.	EMPIRE DIST. ELECTRIC CO.	
NAME OF PLANT	DALE	NEWMAN	RIO GRANDE	JOPPA	RIVERTON	
UTILITY-PLANT CODE	141500-0200	144500-0160	144500-0200	145500-0100	149000-0300	
STATE	KENTUCKY	TEXAS	NEW MEXICO	ILLINOIS	KANSAS	
COUNTY	CLARK	EL PASO	DONA ANA	MASSAC	CHEROKEE	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	102 05	153 13	153 13	072 05	098 11	
PLANT CAPACITY (MW)	194.00	265.80	235.00	1,085.00	155.00	
ANNUAL GENERATION (MWH) [3]	482,300	1,434,800	596,200	7,746,200	832,100	
PLANT HEAT RATE (BTU/KWH) [3]	11,879	10,598	12,167	9,845	14,192	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	246.00			3,409.90	23.32	
AVERAGE HEAT CONTENT (BTU/LB)	11,476			11,218	11,863	
AVERAGE SULFUR CONTENT (%)	1.18			2.71	3.52	
AVERAGE ASH CONTENT (%)	12.63			11.81	13.06	
AVERAGE MOISTURE CONTENT (%)	8.69			10.55	4.42	
OIL: CONSUMPTION (1,000 BARRELS)		.06	1.24	10.40	22.08	
AVERAGE HEAT CONTENT (BTU/GAL)		155,043	151,539	139,000	155,000	
AVERAGE SULFUR CONTENT (%)		1.70	1.70	.10	2.25	
GAS: CONSUMPTION (1,000 MCF)		13,925.00	6,663.00		9,491.01	
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,084	1,087		1,044	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	3	8	6	20	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS	4			6	2	
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	5.00	5.00 15.00	18.00	17.00 35.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00			85.00	85.00	
TESTED, LOW - HIGH					85.10 85.30	
ESTIMATED, LOW - HIGH	85.00			80.00	86.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	3.98			68.46	.37	
SULFUR DIOXIDE (1,000 TONS)	5.71		.01	181.12	1.78	
NITROGEN OXIDES (1,000 TONS)	2.22	2.71	1.29	30.71	2.11	
STACKS: - TOTAL NO.	2	3	8	3	4	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	150.00	121.00 128.00	104.00 139.00	250.00	120.00 250.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	31.00			342.70	2.64	
SOLD (1,000 TONS) [11]	31.00					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	129.56			920.00	145.91	
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	60.00	35.00	118.00	756.00	143.87	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	32.00			484.00	6.50	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	32.00			484.00	6.50	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R KENTUCKY	W	W	R OHIO	R SPRING	
AVERAGE RATE OF WITHDRAWAL (CFS)	181.00	4.18	3.27	828.90	245.45	
AVERAGE RATE OF DISCHARGE (CFS)	181.00		1.14	828.90	242.54	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]		2.98	2.13	7.13	2.11 2.51	
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL JAN	JUL DEC	JUL DEC	AUG FEB	JUN DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00			85.00 41.90	74.47 46.47	
AT OUTFALL, SUMMER - WINTER	88.00 48.00			115.00 71.00	85.57 56.67	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	330.40			120,000.00	565.00	
- WINTER	209.60			475,100.00	676.60	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.38	7.50 2.00	13.40 2.55	15.20	.45	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		2.00	2.55	169.16	.35	
LIME (TONS), COOLING WATER - BOILER MAKEUP	2.50				17.18	
ALUM (TONS), COOLING WATER - BOILER MAKEUP	5.00				3.43	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.00 2.50	3.95	8.00	36.00	7.80	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES YES	YES YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST	SW	
RECEIVING WATER BODY	R KENTUCKY			R OHIO	R SPRING	
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING		8.50		11.50	10.35 7.70	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		5.00		25.00	180.00 200.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	260,800.00			432,000.00	137.56	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)				6 1,100.28	7 155.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)		3 265.80	7 235.00			
COOLING TOWER(S)						
COMBINATIONS [21]	4 176.00					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958	1960 1966	1951 1958	1953 1955	1909 1954	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00	21.10 28.20	13.40 22.10	24.00	14.00 18.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	330.40	257.00	413.00	913.20	377.87	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	333.00			1,100.00	418.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,538.00			9,470.00	161.24	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)		753.00	1,232.00		23.99	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		112.00	144.00	61.70	8.79	
COST OF CHEMICAL ADDITIVES ($1,000)		28.00	17.00	4.40	2.30	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		12.00	12.50	26.00	14.63	
COST OF CHEMICAL ADDITIVES ($1,000)	10.00	5.20	7.50	82.50	7.22	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	EMPIRE DIST. ELECTRIC CO.	EUGENE WATER & ELECTRIC BD.	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER CORP.		
4	NAME OF PLANT	ASBURY	EUGENE	AVON PARK	BAYBORO	CRYSTAL RIVER		
5	UTILITY-PLANT CODE	149000-0400	153000-0300	165500-0100	165500-0200	165500-0300		
6	STATE	MISSOURI	OREGON	FLORIDA	FLORIDA	FLORIDA		
7	COUNTY	JASPER	LANE	HIGHLANDS	PINELLAS	CITRUS		
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	139 11	193 17	051 03	052 03	052 03		
9	PLANT CAPACITY (MW)	212.80	33.80	61.00	51.30	964.30		
10	ANNUAL GENERATION (MWH) [3]	668,300	44,100	228,400	165,100	3,503,300		
11	PLANT HEAT RATE (BTU/KWH) [3]	10,046		12,404	14,337	9,936		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	345.64				1,072.00		
13	AVERAGE HEAT CONTENT (BTU/LB)	9,751				11,261		
14	AVERAGE SULFUR CONTENT (%)	5.23				3.44		
15	AVERAGE ASH CONTENT (%)	27.25				10.20		
16	AVERAGE MOISTURE CONTENT (%)	6.76				11.20		
17	OIL: CONSUMPTION (1,000 BARRELS)		.53	102.00	378.00	1,707.00		
18	AVERAGE HEAT CONTENT (BTU/GAL)			149,999	149,119	148,642		
19	AVERAGE SULFUR CONTENT (%)			2.23	2.23	2.23		
20	GAS: CONSUMPTION (1,000 MCF)			2,135.00				
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,026				

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	1	3	3	3	2		
23	- NO. OF WET BOTTOM	1						
24	- NO. WITH FLY ASH REINJECTION		3					
25	- NO. WITH MECHANICAL PRECIPITATORS		2					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1				1		
27	- NO. WITH COMBINATION PRECIPITATORS [4]							
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	13.00		15.00 20.00	15.00 20.00	15.00 25.00		
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
31	TESTED, LOW - HIGH							
32	ESTIMATED, LOW - HIGH		.95					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	98.20				95.00		
34	TESTED, LOW - HIGH							
35	EST., LOW - HIGH	98.00				95.00		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.19		.02	.06	12.02		
40	SULFUR OIOXIDE (1,000 TONS)	35.43		.76	2.83	85.05		
41	NITROGEN OXIDES (1,000 TONS)	9.51		.64	.83	13.41		
42	STACKS: - TOTAL NO.	1	3	3	2	2		
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	400.00	63.00 65.00	149.00 196.00	202.00 203.00	499.00		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]				.10			
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	89.76	.80		.02	114.40		
46	SOLD (1,000 TONS) [11]				.02			
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
51	ELECTROSTATIC PRECIPITATORS ($1,000)	561.96				750.00		
52	COMBINATION PRECIPITATORS ($1,000) [4]							
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)	401.15		48.00	65.00	1,194.00		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55.26			.50	20.20		
56	REVENUES FROM SALE OF ASH ($1,000)				3.70			
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	55.26			.50	20.20		
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)				3.70			

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	R WILLAMETTE	L LOTELA	B TAMPA	O GULF OF MEXICO		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	8.94		166.00	188.00	1,448.00		
63	AVERAGE RATE OF DISCHARGE (CFS)			166.00	188.00	1,448.00		
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	8.94		1.43	1.62	12.45		
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG NOV		AUG JAN	SEP FEB	AUG JAN		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			88.00 61.00	90.00 66.00	86.00 52.00		
67	AT OUTFALL, SUMMER - WINTER			95.00 68.00	97.00 67.00	90.00 56.00		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER							
69	- WINTER							
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]							
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.60 .45		.08	.03	.29		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	40.85		.08	.04			
73	LIME (TONS), COOLING WATER - BOILER MAKEUP							
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	3.50						
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES	YES YES	YES YES	YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, CT [18]	OT	PS	ST	PS	ST		
78	RECEIVING WATER BODY							
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	9.00 6.00						
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	60.00						
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	2.00						
82	- ASH SETTLING							

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		1 33.80	2 61.00				
84	ONCE THROUGH COOLING (SALINE)				3 51.30	2 964.30		
85	COOLING POND(S)							
86	COOLING TOWER(S)	1 212.80						
87	COMBINATIONS [21]							
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1970		1928 1952	1941 1949	1966 1969		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	23.00		10.00	10.00	10.00		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	213.00		166.00	188.00	1,448.00		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			166.00	188.00	1,420.00		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)			465.00	345.00	5,872.00		
93	COOLING PONDS ($1,000)							
94	COOLING TOWERS ($1,000)	513.05						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	40.30		.30		2.00		
96	COST OF CHEMICAL ADDITIVES ($1,000)	42.00		.20	1.00			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.40		8.80	15.00	4.40		
98	COST OF CHEMICAL ADDITIVES ($1,000)	3.60		.30	.30	1.90		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER CORP.			
NAME OF PLANT	TURNER	HIGGINS	INGLIS	BARTOW	SUWANNEE			
UTILITY-PLANT CODE	165500-0400	165500-0500	165500-0600	165500-0800	165500-0900			
STATE	FLORIDA	FLORIDA	FLORIDA	FLORIDA	FLORIDA			
COUNTY	VOLUSIA	PINELLAS	LEVY	PINELLAS	SUWANNEE			
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	048 03	052 03	052 03	052 03	049 03			
PLANT CAPACITY (MW)	201.60	138.00	53.80	494.40	147.00			
ANNUAL GENERATION (MWH) [3]	1,059,500	700,700	46,400	2,987,000	839,400			
PLANT HEAT RATE (BTU/KWH) [3]	11,504	12,096	13,610	9,643	11,259			

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)								
AVERAGE HEAT CONTENT (BTU/LB)								
AVERAGE SULFUR CONTENT (%)								
AVERAGE ASH CONTENT (%)								
AVERAGE MOISTURE CONTENT (%)								
OIL: CONSUMPTION (1,000 BARRELS)	55.00	855.00	2.00	4,325.00	681.00			
AVERAGE HEAT CONTENT (BTU/GAL)	150,855	150,256	135,485	148,462	148,710			
AVERAGE SULFUR CONTENT (%)	2.23	2.23	2.23	2.23	2.23			
GAS: CONSUMPTION (1,000 MCF)	11,546.00	2,944.00	605.00	1,791.00	4,968.00			
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,026	1,025	1,025	1,024	1,047			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	3	5	3	3			
- NO. OF WET BOTTOM								
- NO. WITH FLY ASH REINJECTION								
- NO. WITH MECHANICAL PRECIPITATORS								
- NO. WITH ELECTROSTATIC PRECIPITATORS								
- NO. WITH COMBINATION PRECIPITATORS [4]								
NO. WITH DESULFURIZATION SYSTEMS								
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00 18.00	20.00	14.00 16.00	2.50 7.00	13.00 18.00			
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH								
TESTED, LOW - HIGH								
ESTIMATED, LOW - HIGH								
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH								
TESTED, LOW - HIGH								
EST., LOW - HIGH								
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH								
TESTED, LOW - HIGH								
ESTIMATED, LOW - HIGH								

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.01	.14		.73	.11			
SULFUR DIOXIDE (1,000 TONS)	.41	6.40	.02	32.36	5.10			
NITROGEN OXIDES (1,000 TONS)	2.37	2.46	.12	9.89	2.47			
STACKS: - TOTAL NO.	6	3	3	3	3			
- HEIGHT (FEET), LOWEST - HIGHEST [8]	150.00 237.00	174.00	125.00	300.00	110.00 135.00			
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]				.66				
TOTAL ASH: COLLECTED (1,000 TONS) [10]				.33				
SOLD (1,000 TONS) [11]				.33				
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)								
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]								
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)								
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)								
ELECTROSTATIC PRECIPITATORS ($1,000)								
COMBINATION PRECIPITATORS ($1,000) [4]								
DESULFURIZATION SYSTEMS ($1,000)								
STACKS ($1,000)	141.00	52.00	39.00	480.00	71.00			
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		1.00		5.00	2.00			
REVENUES FROM SALE OF ASH ($1,000)				62.00				
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)								
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)								
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		1.00		5.00	2.00			
TOTAL BYPRODUCT SALES REVENUES ($1,000)				62.00				

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN [14])	L MONROE	B TAMPA	R WITHLACOOCHEE	B TAMPA	R SUWANNEE			
AVERAGE RATE OF WITHDRAWAL (CFS)	319.00	351.00	173.00	809.00	268.00			
AVERAGE RATE OF DISCHARGE (CFS)	319.00	351.00	173.00	809.00	268.00			
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	2.74	3.02	1.49	6.96	2.30			
PEAK LOAD MONTH: SUMMER - WINTER [15]	AUG JAN	AUG JAN	SEP FEB	SEP FEB	SEP FEB			
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	89.00 57.00	87.00 56.00	83.00 65.00	90.00 57.00	79.00 50.00			
AT OUTFALL, SUMMER - WINTER	96.00 64.00	94.00 73.00	90.00 72.00	96.00 62.00	84.00 55.00			
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			1,400.00		6,429.00			
- WINTER			1,400.00		6,429.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]								
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.03	.03		.20	.02			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	2.63	.10	.01	.60	.04	.06		
LIME (TONS), COOLING WATER - BOILER MAKEUP								
ALUM (TONS), COOLING WATER - BOILER MAKEUP						2.11		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP								
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES YES	YES	YES YES	YES			
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST	ST			
RECEIVING WATER BODY								
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING		5.50		5.50	5.50			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		200.00		200.00	200.00			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					.10			
- ASH SETTLING								

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	4 187.50		3 53.80		3 147.00			
ONCE THROUGH COOLING (SALINE)		3 138.00		3 494.40				
COOLING POND(S)								
COOLING TOWER(S)								
COMBINATIONS [21]								
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM	1926	1951	1926	1958	1953			
NEWEST SYSTEM	1959	1954	1947	1963	1956			
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST	10.00	10.00	10.00	10.00	10.00			
LARGEST [22]								
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	319.00	351.00	173.00	809.00	268.00			
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	319.00	351.00	173.00	869.00	268.00			

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	674.00	916.00	409.00	3,913.00	1,254.00			
COOLING PONDS ($1,000)								
COOLING TOWERS ($1,000)								

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.50	7.70	5.00	1.00	6.00			
COST OF CHEMICAL ADDITIVES ($1,000)	1.30	10.00	.20	1.00				

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.40	14.60	5.00	15.00	17.00			
COST OF CHEMICAL ADDITIVES ($1,000)	.60	.30	.10	3.00	1.10			

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	
NAME OF PLANT	CAPE KENNEDY	CUTLER	FORT MYERS	LAUDERDALE	MIAMI	
UTILITY-PLANT CODE	166500-0100	166500-0200	166500-0400	166500-0500	166500-0600	
STATE	FLORIDA	FLORIDA	FLORIDA	FLORIDA	FLORIDA	
COUNTY	BREVARD	DADE	LEE	BROWARD	DADE	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	048 03	050 03	051 03	050 03	050 03	
PLANT CAPACITY (MW)	804.10	346.25	558.80	312.50	46.00	
ANNUAL GENERATION (MWH) [3]	4,224,300	858,000	2,341,000	1,655,000	208,900	
PLANT HEAT RATE (BTU/KWH) [3]	9,873	12,305	9,745	10,619	13,646	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	3,177.00	216.00	3,607.00	765.00	2.00	
AVERAGE HEAT CONTENT (BTU/GAL)	149,569	149,458	150,607	149,134	151,476	
AVERAGE SULFUR CONTENT (%)	2.37	.88	1.56	2.36	2.00	
GAS: CONSUMPTION (1,000 MCF)	21,749.00	9,205.00		12,784.00	2,838.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	1,000		1,000	1,000	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	4	2	2	2	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION	2	4	1		2	
- NO. WITH MECHANICAL PRECIPITATORS	2	4	1		2	
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00	10.00 20.00	10.00 14.00	14.00	15.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	84.00	88.00	84.00		88.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH	84.00	88.00	84.00		88.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.09		.22	.13		
SULFUR DIOXIDE (1,000 TONS)	25.26	.64	18.88	6.06	.01	
NITROGEN OXIDES (1,000 TONS)	11.25	2.27	7.95	4.18	.56	
STACKS: - TOTAL NO.	2	3	2	2	2	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	397.00	150.00	302.00 407.00	151.00	151.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	.20		.20			
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	366.10	309.60			42.20	
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	839.60	195.90	188.30		40.40	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	50.20	12.60	18.70	14.00	6.40	
REVENUES FROM SALE OF ASH ($1,000)	3.80		3.80			
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	50.20	12.60	18.70	14.00	6.40	
TOTAL BYPRODUCT SALES REVENUES ($1,000)	3.80		3.80			

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R INDIAN		B BISCAYNE		R CALOOSAHATCHEE		O OANIA CANAL		R MIAMI		
AVERAGE RATE OF WITHDRAWAL (CFS)	1,249.00		503.00		884.00		530.00		75.00		
AVERAGE RATE OF DISCHARGE (CFS)	1,249.00		503.00		884.00		530.00		75.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	10.74		4.33		7.60		4.56		.65		
PEAK LOAD MONTH : SUMMER - WINTER [15]	SEP	JAN	SEP	JAN	SEP	JAN	SEP	JAN	SEP	JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	98.00	71.00	90.00	75.00	92.00	65.00	95.00	72.00	81.00	72.00	
AT OUTFALL, SUMMER - WINTER	109.00	83.00	117.00	92.00	107.00	80.00	99.00	76.00	113.00	94.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						614.00		170.00		581.00	
- WINTER						7,470.00		307.00		339.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]											
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.47		.26		.80		.12		.21	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		73.74				123.49		29.78			
LIME (TONS), COOLING WATER - BOILER MAKEUP		75.26		25.28		37.54		28.60			
ALUM (TONS), COOLING WATER - BOILER MAKEUP		4.88				16.30		1.94			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	100.01	2.44	1.00	.54	9.00	.75	21.60	.60	1.83		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	YES		YES		YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST		ST		ST		ST		PS		
RECEIVING WATER BODY											
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING		8.00		7.50		7.50		7.50			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING											
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN											
- ASH SETTLING		4,690.00		673.00		1,500.00		250.00			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)					2	558.30	2	312.50			
ONCE THROUGH COOLING (SALINE)	2	804.10	4	346.25					1	46.00	
COOLING POND(S)											
COOLING TOWER(S)											
COMBINATION [21]											
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1965	1969	1949	1955	1958	1969	1957	1958		1948	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]		14.10	14.90	18.10	11.20	14.10		13.20		19.20	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		1,226.00		484.30		868.00		516.00		71.75	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		1,280.00		504.50		906.00		532.00		81.30	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,849.30	2,134.80	1,016.60		847.60	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	46.10	34.60	14.20	13.50	21.00	
COST OF CHEMICAL ADDITIVES ($1,000)	14.40	1.90	1.40	3.00	.50	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	51.10	15.80	36.70	23.70	15.40	
COST OF CHEMICAL ADDITIVES ($1,000)	21.60	3.30	19.80	5.80	.40	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	
NAME OF PLANT	PORT EVERGLADES	PALATKA	RIVERIA	SANFORD NEW	TURKEY POINT	
UTILITY-PLANT CODE	166500-0900	166500-1000	166500-1100	166500-1200	166500-1300	
STATE	FLORIDA	FLORIDA	FLORIDA	FLORIDA	FLORIDA	
COUNTY	BROWARD	PUTNAM	PALM BEACH	VOLUSIA	DADE	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	050 03	049 03	050 03	048 03	050 03	
PLANT CAPACITY (MW)	1,254.60	109.60	739.79	156.35	804.10	
ANNUAL GENERATION (MWH) [3]	6,798,900	341,900	3,776,500	600,700	4,342,000	
PLANT HEAT RATE (BTU/KWH) [3]	10,035	11,850	10,208	10,466	9,691	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	6,660.00	438.00	2,464.00	817.00	4,615.00	
AVERAGE HEAT CONTENT (BTU/GAL)	148,425	148,514	149,133	148,352	148,900	
AVERAGE SULFUR CONTENT (%)	1.48	2.29	2.22	2.24	2.38	
GAS: CONSUMPTION (1,000 MCF)	26,728.00	1,317.00	23,115.00	1,194.00	13,233.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	1,030	1,000	1,000	1,000	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	2	5	1	2	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION	4		5		2	
- NO. WITH MECHANICAL PRECIPITATORS	4		5		2	
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00	10.00	10.00 15.00	14.00	10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00 88.00		78.50 88.00		84.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH	85.00 88.00		78.50 88.00		84.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.15	.07	.05	.14	.12	
SULFUR DIOXIDE (1,000 TONS)	33.07	3.37	18.35	6.14	36.85	
NITROGEN OXIDES (1,000 TONS)	19.90	1.22	9.94	2.03	12.76	
STACKS: - TOTAL NO.	4	1	4	1	2	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	343.00 344.00	150.00	150.00 298.00	302.00	400.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	.10		.10		.10	
TOTAL ASH: COLLECTED (1,000 TONS) [10]	.30		.20	.10	.70	
SOLD (1,000 TONS) [11]	.20				.40	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	767.90		325.60			
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	1,347.50	35.20	458.40	250.30		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	69.20	15.90	52.20	17.30	45.90	
REVENUES FROM SALE OF ASH ($1,000)	19.00		5.40	.40	41.50	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	69.20	15.90	52.20	17.30	45.90	
TOTAL BYPRODUCT SALES REVENUES ($1,000)	19.00		5.40	.40	41.50	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES: R, L, B, C, G, M & O EXPL. IN FOOTNOTES)	L MABLE	R ST. JOHN'S	L WORTH	R ST. JOHN'S	B BISCAYNE	
AVERAGE RATE OF WITHDRAWAL (CFS)	1,968.00	191.00	1,160.00	265.00	1,252.00	
AVERAGE RATE OF DISCHARGE (CFS)	1,968.00	191.00	1,160.00	265.00	1,252.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	16.92	1.64	9.98	2.28	10.77	
PEAK LOAD MONTH : SUMMER - WINTER [15]	SEP JAN	SEP JAN	SEP JAN	SEP JAN	SEP JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	91.00 81.00	89.00 60.00	91.00 74.00	93.00 63.00	92.00 75.00	
AT OUTFALL, SUMMER - WINTER	103.00 92.00	107.00 72.00	107.00 90.00	103.00 72.00	107.00 88.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
- WINTER						
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.00	.24	.54	.03	.49	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	286.90		84.38		183.63	
LIME (TONS), COOLING WATER - BOILER MAKEUP		.45		4.23	68.49	
ALUM (TONS), COOLING WATER - BOILER MAKEUP		.05		2.23	11.93	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	17.58 1.97	8.98	17.29 1.22	4.00 .13	50.86	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST	ST	
RECEIVING WATER BODY						
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	7.50		7.50		7.50	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING	1,600.00		400.00		800.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 109.50		1 156.35			
ONCE THROUGH COOLING (SALINE)	4 1,254.60	4 739.59		2 804.10		
COOLING PONDS						
COOLING TOWERS						
COMBINATIONS [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1960 1965	1951 1956	1946 1963	1959	1967 1968	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	13.10 14.10	13.30 18.60	10.30 17.00	11.40	14.10	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,940.00	186.00	1,124.00	258.00	1,226.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,994.00	200.00	1,200.00	266.00	1,280.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	5,170.60	620.30	5,093.70	720.90		
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	61.50	15.40	34.40	13.60	16.30	
COST OF CHEMICAL ADDITIVES ($1,000)	2.30	1.40	2.30	.60	3.70	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	43.40	17.50	25.10	21.40	33.90	
COST OF CHEMICAL ADDITIVES ($1,000)	44.40	.80	10.80	1.40	42.60	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	GARLAND MUNICIPAL UTILITIES	GARLAND MUNICIPAL UTILITIES	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.		
NAME OF PLANT	NEWMAN	OLINGER	ARKWRIGHT	ATKINSON	HAMMOND		
UTILITY-PLANT CODE	177500-0100	177500-0300	179000-0100	179000-0200	179000-0900		
STATE	TEXAS	TEXAS	GEORGIA	GEORGIA	GEORGIA		
COUNTY	DALLAS	DALLAS	BIBB	COBB	FLOYD		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	215 12	215 12	054 03	056 03	055 03		
PLANT CAPACITY (MW)	96.50	75.00	181.00	240.00	875.00		
ANNUAL GENERATION (MWH) [3]	180,700	351,000	1,012,200	1,466,300	1,959,300		
PLANT HEAT RATE (BTU/KWH) [3]	12,970	11,044	12,506	13,916	10,529		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)			232.00	123.00	1,023.00	
AVERAGE HEAT CONTENT (BTU/LB)			11,471	11,797	11,473	
AVERAGE SULFUR CONTENT (%)			1.88	1.24	3.10	
AVERAGE ASH CONTENT (%)			15.60	12.39	10.87	
AVERAGE MOISTURE CONTENT (%)			5.73	6.81	9.29	
OIL: CONSUMPTION (1,000 BARRELS)	1.05	.35				
AVERAGE HEAT CONTENT (BTU/GAL)	146,000	146,000				
AVERAGE SULFUR CONTENT (%)	.60	.60				
GAS: CONSUMPTION (1,000 MCF)	2,427.32	3,783.42	6,991.00	16,798.00		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,036	1,018	1,047	1,038		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	1	4	5	4	
- NO. OF WET BOTTOM					4	
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS					1	
- NO. WITH ELECTROSTATIC PRECIPITATORS			3	5	3	
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	7.00 8.00	8.00	22.00		18.00 23.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			85.00		84.00	
TESTED, LOW - HIGH			72.20		30.00	
ESTIMATED, LOW - HIGH					30.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH			90.00	90.00	98.20 98.40	
TESTED, LOW - HIGH			77.60 95.90	59.00	85.00 95.00	
EST., LOW - HIGH				60.00 85.00	70.00 90.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)			4.96	2.80	23.66	
SULFUR DIOXIDE (1,000 TONS)			8.55	2.97	62.04	
NITROGEN OXIDES (1,000 TONS)	.48	.74	3.45	4.37	15.32	
STACKS: - TOTAL NO.	5	1	4	5	3	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	60.00 70.00	81.00	144.00	180.00	200.00 500.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]			26.70	15.30	87.23	
SOLD (1,000 TONS) [11]			.80			
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)					1,535.00	
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	66.00	30.00			1,280.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			163.00	43.00	52.70	
REVENUES FROM SALE OF ASH ($1,000)			.10			
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]			163.00	43.00	52.70	
TOTAL BYPRODUCT SALES REVENUES ($1,000)			.10			

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	L LAVON	R MULGEE	R CHATTAHOOCHEE	R COOSA	
AVERAGE RATE OF WITHDRAWAL (CFS)		83.40	237.00	668.00	508.20	
AVERAGE RATE OF DISCHARGE (CFS)		93.34	200.00	668.00	507.70	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.06	.72 .06	2.04 37.00	5.74	4.37 .50	
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL JAN	AUG FEB	AUG JAN		JUL JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		89.00 61.00	82.00 65.00	68.00 55.00	79.00 44.00	
AT OUTFALL, SUMMER - WINTER		102.00 69.00	96.00 79.00	79.00 65.00	82.00 49.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		119.20	302.00		4,209.00	
- WINTER		41.20	250.00		5,200.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.08	.05	.05	.42	.30	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	2.10	.39	.07	.47	16.25	
LIME (TONS), COOLING WATER - BOILER MAKEUP		1.15				
ALUM (TONS), COOLING WATER - BOILER MAKEUP					62.50	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.40	.28	5.00	113.55	22.50	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, CT [18]	ST	ST	ST	ST	ST	
RECEIVING WATER BODY						
POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING			7.80		10.80	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			65.00			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING			7,148.52		233,600.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		1 75.00	4 181.00	4 240.00	3 375.00	
ONCE THROUGH COOLING (SALINE)					1 578.00	
COOLING POND(S)						
COOLING TOWER(S)	5 96.50					
COMBINATION [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1957 1963		1941 1948	1930 1948	1954 1970	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	12.00 14.50	12.00	13.70		10.00 26.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	207.10	134.00	350.00		853.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		140.60	350.00		699.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		265.00				
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	407.80					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	25.50	31.00	17.00	20.00		
COST OF CHEMICAL ADDITIVES ($1,000)	10.90	.15	1.00	16.00	3.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.50	10.50	24.00	39.00		
COST OF CHEMICAL ADDITIVES ($1,000)	2.90	3.00	2.00	2.00	9.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	
2							
3							
4	NAME OF PLANT	HARLLEE BRANCH	MCDONOUGH	MCMANUS	MITCHELL	YATES	
5	UTILITY-PLANT CODE	179000-1000	179000-1109	179000-1500	179000-2500	179000-2600	
6	STATE	GEORGIA	GEORGIA	GEORGIA	GEORGIA	GEORGIA	
7	COUNTY	PUTNAM	CO88	GLYNN	DOUGHERTY	COWETA	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	054 03	056 03	049 03	059 03	056 03	
9	PLANT CAPACITY (MW)	1,746.00	490.00	144.00	218.00	550.00	
10	ANNUAL GENERATION (MWH) [3]	9,068,600	3,337,100	693,200	1,052,600	368,820	
11	PLANT HEAT RATE (BTU/KWH) [3]	9,288	9,618	10,729	10,496	10,800	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	3,456.00	1,165.00	313.00	453.00	847.00	
13	AVERAGE HEAT CONTENT (BTU/LB)	12,109	11,740	11,719	12,142	11,615	
14	AVERAGE SULFUR CONTENT (%)	1.58	1.09	2.33	2.08	2.92	
15	AVERAGE ASH CONTENT (%)	11.68	12.28	12.79	9.87	10.72	
16	AVERAGE MOISTURE CONTENT (%)	6.45	6.78	1.68	7.20	8.70	
17	OIL: CONSUMPTION (1,000 BARRELS)						
18	AVERAGE HEAT CONTENT (BTU/GAL)						
19	AVERAGE SULFUR CONTENT (%)						
20	GAS: CONSUMPTION (1,000 MCF)		5,337.00			19,574.00	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,038			1,031	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.		4		2		2		3		5		22
23	- NO. OF WET BOTTOM		4		2		2				5		23
24	- NO. WITH FLY ASH REINJECTION												24
25	- NO. WITH MECHANICAL PRECIPITATORS										2		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		4		2		2		3		3		26
27	- NO. WITH COMBINATION PRECIPITATORS [4]												27
28	- NO. WITH DESULFURIZATION SYSTEMS												28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	18.00	20.00		18.00	17.00	19.00	18.00	20.00		20.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH										78.00		30
31	TESTED, LOW - HIGH												31
32	ESTIMATED, LOW - HIGH										50.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	98.00	98.50		98.00		98.00		98.00	98.30	98.60		33
34	TESTED, LOW - HIGH		94.00	91.00	96.00	97.70	99.40						34
35	EST., LOW - HIGH	95.00	97.00				98.00		85.00		98.20		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH												36
37	TESTED, LOW - HIGH												37
38	ESTIMATED, LOW - HIGH												38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)		11.18		5.97		.52		5.71		17.62		39
40	SULFUR DIOXIDE (1,000 TONS)		107.03		24.89		14.29		18.51		48.33		40
41	NITROGEN OXIDES (1,000 TONS)		51.84		18.52		4.70		4.09		16.54		41
42	STACKS: - TOTAL NO.		4		4		1		2		3		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	300.00	500.00		229.00		185.00	115.00	211.00		175.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]												44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]		394.00		139.00		39.93		43.00		126.00		45
46	SOLD (1,000 TONS) [11]												46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)												47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]												48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)												49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)												50
51	ELECTROSTATIC PRECIPITATORS ($1,000)												51
52	COMBINATION PRECIPITATORS ($1,000) [4]												52
53	DESULFURIZATION SYSTEMS ($1,000)												53
54	STACKS ($1,000)		1,083.00										54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		237.00		99.00		52.00		75.00		157.30		55
56	REVENUES FROM SALE OF ASH ($1,000)												56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)												57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)												58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		237.00		99.00		52.00		75.00		157.30		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)												60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & D EXPL. IN FOOTNOTES)	L SINCLAIR		R CHATTAHOOCHEE		R TURTLE		R FLINT		R CHATTAHOOCHEE			61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,763.00		608.00		195.00		224.00		187.00			62
63	AVERAGE RATE OF DISCHARGE (CFS)	1,763.00		608.00		195.00		223.80		187.00			63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	15.16		5.23		1.68		1.93	.20	1.61			64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG	JAN	JUL	JAN	AUG	JAN	AUG	JAN	AUG	JAN		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	96.00	70.00	68.00	55.00	89.00	50.00	84.00	43.00	92.00	45.00		66
67	AT OUTFALL, SUMMER - WINTER	108.00	80.00	79.00	65.00	91.00	75.00	96.00	50.00	110.00	64.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	LAKE											68
69	- WINTER	LAKE											69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]												70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP						.06		.05		.10		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		4.43				.15		.08		.33		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						6.71						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		30.51										74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	60.00	1.05	113.40				12.00					75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]		YES		YES		YES		YES		YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	SW		OT		ST				ST			77
78	RECEIVING WATER BODY												78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING		9.40		4.60		7.50		8.10		8.00		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		15.00		8.00		10.00		26.00		20.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN												81
82	- ASH SETTLING		440,200.00		172,150.00		71,500.00		109,000.00		65,000.00		82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	4	1,746.00	2	490.00			3	217.00	5	678.00		83
84	ONCE THROUGH COOLING (SALINE)					2	144.00						84
85	COOLING PONDS(S)												85
86	COOLING TOWER(S)												86
87	COMBINATIONS [21]												87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1965	1969	1963	1964	1950	1959	1948	1964	1950	1958		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	16.70	18.50		17.00	14.50	14.90	10.00	16.00		15.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		1,763.00		608.00		216.00		312.00		875.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		1,763.00		608.00		216.00		312.00		875.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		811.50					92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)							94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		8.00					95
96	COST OF CHEMICAL ADDITIVES ($1,000)	8.00	16.00			2.00		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		92.00					97
98	COST OF CHEMICAL ADDITIVES ($1,000)	26.00	2.00	4.00		1.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	GLENDALE PUBLIC SERVICE DEPT.	GRAND RIVER DAM AUTHORITY	BURLINGTON ELEC. LIGHT DEPT.	GULF POWER CO.	GULF POWER CO.	
NAME OF PLANT	GLENDALE	CHOUTEAU	MORAN	CRIST	SCHOLTZ	
UTILITY-PLANT CODE	182500-0100	188500-0100	190000-0100	195000-0100	195000-0200	
STATE	CALIFORNIA	OKLAHOMA	VERMONT	FLORIDA	FLORIDA	
COUNTY	LOS ANGELES	MAYES	CHITTENDEN	ESCAMBIA	JACKSON	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	024 18	186 18	159 01	005 03	005 03	
PLANT CAPACITY (MW)	163.00	56.25	30.00	651.00	98.00	
ANNUAL GENERATION (MWH) 3/	548,000	200,400	78,600	2,555,600	389,400	
PLANT HEAT RATE (BTU/KWH) 3/	11,787	34,309	16,137	11,140	12,005	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)			54.90	351.00	186.10	
AVERAGE HEAT CONTENT (BTU/LB)			12,513	12,355	12,556	
AVERAGE SULFUR CONTENT (%)			3.17	2.43	1.61	
AVERAGE ASH CONTENT (%)			10.80	12.31	12.07	
AVERAGE MOISTURE CONTENT (%)			4.83	6.75	5.66	
OIL: CONSUMPTION (1,000 BARRELS)	265.00	.90		149.80	.20	
AVERAGE HEAT CONTENT (BTU/GAL)	149,774	138,800		141,254	136,000	
AVERAGE SULFUR CONTENT (%)	.38	.05		.92	.10	
GAS: CONSUMPTION (1,000 MCF)	4,408.00	6,487.40		18,934.10		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,055	1,025		1,000		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	6	6	3	6	2	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION			3			
- NO. WITH MECHANICAL PRECIPITATORS	1		3		2	
- NO. WITH ELECTROSTATIC PRECIPITATORS				3		
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	8.00 15.00	20.00	32.00	10.00 18.00	25.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	98.00		96.50		84.50	
TESTED, LOW - HIGH			96.40			
ESTIMATED, LOW - HIGH			80.00		65.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH				98.00 98.20		
TESTED, LOW - HIGH						
EST., LOW - HIGH				98.80 99.70		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.04		1.61	.34	6.68	
SULFUR DIOXIDE (1,000 TONS)	.34		3.41	17.18	5.87	
NITROGEN OXIDES (1,000 TONS)	1.44	1.27	.41	7.18	1.68	
STACKS: - TOTAL NO.	6	6	3	4	1	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	60.00 100.00	150.00	130.00	125.00 450.00	150.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/			5.90	42.88	17.40	
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			54.00		106.00	
ELECTROSTATIC PRECIPITATORS ($1,000)				1,674.00		
COMBINATION PRECIPITATORS ($1,000) 4/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)		78.00	24.00	766.90	58.10	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			44.00	108.30	29.70	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/			44.00	111.20	32.60	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	R GRANO	L CHAMPLAIN	R ESCAMBIA	R APALACHICOLA	
AVERAGE RATE OF WITHDRAWAL (CFS)		2.26	45.70	519.00	162.00	
AVERAGE RATE OF DISCHARGE (CFS)		2.23	44.80	519.00	162.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	2.27	.03	.39 .90		I.39	
PEAK LOAD MONTH : SUMMER - WINTER 15/		AUG FEB	OCT FEB	JUL JAN	JUL JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		112.00 80.00	54.00 35.00	88.00 57.00	86.00 60.00	
AT OUTFALL, SUMMER - WINTER		99.00 64.00	66.00 42.00	105.00 72.00	101.00 74.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		2.18		2,230.00	13,260.00	
- WINTER		2.22		5,750.00	17,950.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.10	.01	.15	.95	1.50	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	10.00	.27	6.93	51.44	.40	
LIME (TONS), COOLING WATER - BOILER MAKEUP		.01 .01				
ALUM (TONS), COOLING WATER - BOILER MAKEUP		.02 .03			.15	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP 17/	16.00	.01 .01				
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES		YES YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/		OT	ST	ST		
RECEIVING WATER BODY		C PRYOR				
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING				5.10	7.00	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				50.00	50.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING				125,134.00	168.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)			3 30.00	5 281.26	2 98.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)		4 25.00				
COOLING TOWER(S)	163.00	2 31.25				
COMBINATION 21/				1 370.00		
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1941 1964	1942 1950	1954	1945 1970	1953	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	15.00	12.00 16.00	14.00	13.00 22.00	12.40	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	300.00	75.66	68.10	760.00	192.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			240.60	785.00	202.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)			141.00	2,097.60	576.30
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)	1,125.00			3,938.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)			4.50	3.20	.80
COST OF CHEMICAL ADDITIVES ($1,000)	26.00			22.40	.20

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)			3.00	34.40	15.60
COST OF CHEMICAL ADDITIVES ($1,000)	2.50		3.00	4.30	.70

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	GULF POWER CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	
4	NAME OF PLANT	SMITH	LOUISIANA NO. 1	LOUISIANA NO. 2	NECHES	NELSON	
5	UTILITY-PLANT CODE	195000-0300	195500-0100	195500-0200	195500-0300	195500-0400	
6	STATE	FLORIDA	LOUISIANA	LOUISIANA	TEXAS	LOUISIANA	
7	COUNTY	BAY	EAST BATON ROUGE	EAST BATON ROUGE	JEFFERSON	CALCASIEU PARISH	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	005 03	106 08	106 08	106 12	106 08	
9	PLANT CAPACITY (MW)	340.00	253.00	175.00	452.27	982.27	
10	ANNUAL GENERATION (MWH) 3/	1,961,500	1,415,500	957,700	2,094,300	3,427,100	
11	PLANT HEAT RATE (BTU/KWH) 3/	10,011		12,836	11,237	10,720	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	868.10					
13	AVERAGE HEAT CONTENT (BTU/LB)	11,298					
14	AVERAGE SULFUR CONTENT (%)	3.00					
15	AVERAGE ASH CONTENT (%)	13.71					
16	AVERAGE MOISTURE CONTENT (%)	9.75					
17	OIL: CONSUMPTION (1,000 BARRELS)	3.35	.95				
18	AVERAGE HEAT CONTENT (BTU/GAL)	136,000	149,674				
19	AVERAGE SULFUR CONTENT (%)	.10	.90				
20	GAS: CONSUMPTION (1,000 MCF)		44,773.00	11,306.00	23,106.00	34,044.00	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,072	1,088	1,018	1,079	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	11	3	6	4		
23	- NO. OF WET BOTTOM							
24	- NO. WITH FLY ASH REINJECTION							
25	- NO. WITH MECHANICAL PRECIPITATORS							
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2						
27	- NO. WITH COMBINATION PRECIPITATORS 4/							
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	18.00	10.00	10.00	15.00	7.00	10.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
31	TESTED, LOW - HIGH							
32	ESTIMATED, LOW - HIGH							
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	98.00						
34	TESTED, LOW - HIGH							
35	EST., LOW - HIGH	97.00 98.40						
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	2.26						
40	SULFUR DIOXIDE (1,000 TONS)	51.05						
41	NITROGEN OXIDES (1,000 TONS)	7.82	8.73	2.20	4.51	6.64		
42	STACKS: - TOTAL NO.	1	11	2	8	8		
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	200.00	150.50 167.00	150.00 179.00	138.00 225.00	165.00 217.00		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/							
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	121.30						
46	SOLD (1,000 TONS) 11/							
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
51	ELECTROSTATIC PRECIPITATORS ($1,000)	589.00						
52	COMBINATION PRECIPITATORS ($1,000) 4/							
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)	107.50						
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	123.30						
56	REVENUES FROM SALE OF ASH ($1,000)							
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	126.20						
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, R, C, W, M & O EXPL. IN FOOTNOTES)	S NORTH	R MISSISSIPPI	W	R NECHES	W		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	367.00	2.50	5.24	371.00	3.35		
63	AVERAGE RATE OF DISCHARGE (CFS)	367.00	1.90	1.57	368.00	.40		
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	3.16	.82	3.67	3.00	2.95		
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL JAN	AUG DEC	AUG DEC	AUG DEC	JUL JAN		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	94.00 67.00	89.00 51.00	89.00 51.00	95.00 70.00			
67	AT OUTFALL, SUMMER - WINTER	111.00 76.00			108.00 81.00			
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		233,000.00	233,000.00				
69	- WINTER		360,000.00	360,000.00				
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/					D		
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.25	4.65	1.70	1.75	.47		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	31.22	1,305.42	21.51	77.46	.32		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		1,200.00					
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	116.00 4.43	4.50	4.50	111.00	60.00		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES	YES	YES	YES YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	ST	ST	ST	ST		
78	RECEIVING WATER BODY		R MISSISSIPPI	R MISSISSIPPI	R NECHES	O FILTER BED		
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	7.50		9.90				
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	50.00						
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			17,740.00				
82	- ASH SETTLING	68,000.00						

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)				4 225.00			
84	ONCE THROUGH COOLING (SALINE)	2 340.00						
85	COOLING PONDS							
86	COOLING TOWERS		3 60.00	3 175.00	2 227.28	4 982.28		
87	COMBINATIONS 21/							
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1965 1967	1938 1943	1950 1953	1937 1958	1959 1970		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	16.00 19.40	19.00	13.97 14.98	11.00 12.00	19.00 20.00		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	403.00	100.26	262.90	612.40	934.00		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	423.00			363.60			

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,069.50			362.00			
93	COOLING PONDS ($1,000)							
94	COOLING TOWERS ($1,000)		303.00	1,864.00	2,570.00	10,217.00		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	3.70						
96	COST OF CHEMICAL ADDITIVES ($1,000)	16.20						

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	17.80						
98	COST OF CHEMICAL ADDITIVES ($1,000)	5.40						

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	GULF STATES UTILITIES CO.		GULF STATES UTILITIES CO.		GULF STATES UTILITIES CO.		HAMILTON MUNC. ELECTRIC PLT.		HAWAIIAN ELECTRIC CO. INC.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	SABINE		WILLOW GLEN		LEWIS CREEK		HAMILTON		HONOLULU		4
5	UTILITY-PLANT CODE	5	195500-0500		195500-0600		195500-0700		19750C-0100		201500-0100		5
6	STATE	6	TEXAS		LOUISIANA		TEXAS		OHIO		HAWAII		6
7	COUNTY	7	ORANGE		IBERVILLE		MONTGOMERY		BUTLER		HONOLULU		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	106 12		106 08		216 12		079 05		060 22		8
9	PLANT CAPACITY (MW)	9	952.00		994.36		271.44		83.50		180.00		9
10	ANNUAL GENERATION (MWH) [3]	10	5,996,100		5,233,100		166,700		277,900		401,100		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	9,885		10,123		10,259		15,203		12,900		11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12							169.70				12
13	AVERAGE HEAT CONTENT (BTU/LB)	13							12,500				13
14	AVERAGE SULFUR CONTENT (%)	14							.75				14
15	AVERAGE ASH CONTENT (%)	15							11.10				15
16	AVERAGE MOISTURE CONTENT (%)	16							3.00				16
17	OIL: CONSUMPTION (1,000 BARRELS)	17			.47						824.00		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18			138,144						149,370		18
19	AVERAGE SULFUR CONTENT (%)	19			.30						.34		19
20	GAS: CONSUMPTION (1,000 MCF)	20	58,675.00		49,599.00		1,675.00						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,012		1,068		1,021						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	3		4		1		8		5		22
23	- NO. OF WET BOTTOM	23											23
24	- NO. WITH FLY ASH REINJECTION	24							1				24
25	- NO. WITH MECHANICAL PRECIPITATORS	25							4				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26											26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27											27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	7.00	7.00	10.00	10.00	20.00	50.00	13.00	20.00			29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30					88.00	97.00					30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32					70.00	85.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33											33
34	TESTED, LOW - HIGH	34											34
35	EST., LOW - HIGH	35											35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39							4.32		.14		39
40	SULFUR OIOXIDE (1,000 TONS)	40							2.50		.94		40
41	NITROGEN OXIDES (1,000 TONS)	41	11.44		9.67	.33			1.37		1.82		41
42	STACKS: - TOTAL NO.	42			7	1			4		6		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	148.50	188.00	167.00	196.60	189.00	131.00	260.00	141.00	161.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45							20.00				45
46	SOLD (1,000 TONS) [11]	46											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50							140.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51											51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52											52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	630.00		202.20				235.00		159.80		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55							12.00				55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59							12.00				59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60											60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	L SABINE		R MISSISSIPPI		R SAN JACINTO		R GREAT MIAMI		O PACIFIC OCEAN		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		1,154.00		654.52		399.00		82.00		176.10	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63		1,146.00		654.52		399.00		81.00		176.10	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	9.92	8.00	5.63				.71	1.00	1.51		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	AUG	NOV	AUG	OEC		OEC	JUL	JAN	JUL	OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	91.00	83.00	89.00	51.00			88.00	46.00	79.00	78.00	66
67	AT OUTFALL, SUMMER - WINTER	67	101.00	93.00	111.00	73.00			102.00	56.00	89.00	88.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68				233,000.00				1,086.00			68
69	- WINTER	69				360,000.00				1,948.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		3.95		.40		.02		.04		.32	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		1.80		.36		.01		.08		.06	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73											73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		605.00					15.00				75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76		YES		YES		YES		YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	ST		ST		OT		PS		PS		77
78	RECEIVING WATER BODY	78			O BAYOU MANCHAC		L PRIVATE						78
79	POND DISCHARGE: [19] PH. BOILER BLOWDOWN - ASH SETTLING	79											79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80											80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81								.60			81
82	- ASH SETTLING	82											82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83			3	994.36			7	83.50			83
84	ONCE THROUGH COOLING (SALINE)	84	3	952.00							4	168.15	84
85	COOLING POND(S)	85					1	271.44					85
86	COOLING TOWER(S)	86											86
87	COMBINATIONS [21]	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1962	1966	1960	1968		1970	1929	1965	1930	1957	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	13.00	16.00		20.00		15.00		22.00	7.00	13.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		1,310.30		893.00		399.00		169.00		457.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		1,311.00						263.00		461.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92		649.00		9,092.00				400.00		1,174.54	92
93	COOLING PONDS ($1,000)	93						9,242.00					93
94	COOLING TOWERS ($1,000)	94											94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95							22.00		6.70		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96							7.00				96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97							5.00		32.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98							15.00		10.60		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	HAWAIIAN ELECTRIC CO. INC.	HAWAIIAN ELECTRIC CO. INC.	HAWAIIAN ELECTRIC CO. INC.	HOLYOKE GAS & ELECTRIC DEPT.	HOLYOKE WATER POWER CO.	
NAME OF PLANT	KAHE	WAIAU	KAHULUI	HOLYOKE	MOUNT TOM	
UTILITY-PLANT CODE	201500-0200	201500-0300	201500-0400	213500-0200	214500-0500	
STATE	HAWAII	HAWAII	HAWAII	MASSACHUSETTS	MASSACHUSETTS	
COUNTY	HONOLULU	HONOLULU	MAUI	HAMPDEN	HAMPDEN	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	060 22	060 22	060 22	042 01	042 01	
PLANT CAPACITY (MW)	266.00	427.00	34.93	30.00	136.00	
ANNUAL GENERATION (MWH) [3]	1,278,369	1,811,000	153,000	126,300	858,400	
PLANT HEAT RATE (BTU/KWH) [3]	9,861	10,683	13,979	16,170	10,006	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)				.50	145.40	
AVERAGE HEAT CONTENT (BTU/LB)				12,500	11,843	
AVERAGE SULFUR CONTENT (%)				2.50	2.55	
AVERAGE ASH CONTENT (%)				10.50	15.78	
AVERAGE MOISTURE CONTENT (%)				4.00	6.20	
OIL: CONSUMPTION (1,000 BARRELS)	1,933.00	2,968.00	336.40	321.30	825.38	
AVERAGE HEAT CONTENT (BTU/GAL)	155,262	155,186	151,603	148,463	148,502	
AVERAGE SULFUR CONTENT (%)	1.31	1.27	1.28	2.18	2.09	
GAS: CONSUMPTION (1,000 MCF)				1,018.60		
AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,000		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	8	4	4	1	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION			4	2		
- NO. WITH MECHANICAL PRECIPITATORS					1	
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	8.00 12.00	7.00 15.00	15.00 20.00	16.00	18.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				90.00 92.60		
TESTED, LOW - HIGH			98.00			
EST(MATED, LOW - HIGH			85.00	80.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH					95.00	
TESTED, LOW - HIGH					92.90	
EST., LOW - HIGH					95.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.32	.50	.01	.02	.98	
SULFUR DIOXIDE (1,000 TONS)	8.50	12.65	1.44	2.37	13.05	
NITROGEN OXIDES (1,000 TONS)	4.26	6.54	.74	.91	3.13	
STACKS: - TOTAL NO.	3	8	4	2	1	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	148.00 115.00	138.00	100.00	95.00 225.00	370.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]					.06	
TOTAL ASH: COLLECTED (1,000 TONS) [10]	.10	.10		.06	23.00	
SOLD (1,000 TONS) [11]					1.20	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)			54.25			
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)					344.00	
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	269.16	316.71	117.00		344.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	6.70	10.00	1.00		37.90	
REVENUES FROM SALE OF ASH ($1,000)					1.26	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	6.70	361.20	1.00		68.65	
TOTAL BYPRODUCT SALES REVENUES ($1,000)					1.26	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O PACIFIC OCEAN	H PEARL	W	R CONNECTICUT	R CONNECTICUT	
AVERAGE RATE OF WITHDRAWAL (CFS)	373.50	570.20	33.00	40.90	206.00	
AVERAGE RATE OF DISCHARGE (CFS)	373.50	570.20	33.00	40.50	206.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.21	4.90	.28	.35 .40	1.77	
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL OEC	JUL OEC	AUG OEC	JUL OEC	AUG OEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 80.00	73.00 80.00	73.00 73.00	85.00 32.00	81.00 41.00	
AT OUTFALL, SUMMER - WINTER	95.00 90.00	83.00 90.00	90.00 92.00	105.00 52.00	96.00 66.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			31.00	1,800.00	2,183.00	
- WINTER			39.00	60,000.00	6,982.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, L [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.41	.96	.25	.50	.01	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.23	.40	141.83		
LIME (TONS), COOLING WATER - BOILER MAKEUP				.06 .09		
ALUM (TONS), COOLING WATER - BOILER MAKEUP				15.57 20.63	3.25	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP				.77 1.03	3.84	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	ST	ST		ST	
RECEIVING WATER BODY						
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	7.50				6.00	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5,000.00				25.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING					7,300.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)				3 25.00	1 136.00	
ONCE THROUGH COOLING (SALINE)	3 266.00	8 394.50	4 38.50			
COOLING PONDS						
COOLING TOWERS				1 5.00		
COMBINATIONS [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1963 1970	1938 1968	1948 1966	1934 1955	1960	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	10.00	9.40 13.00	15.00 19.00	15.00 20.00	13.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	480.00	849.00	81.00	64.90	204.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	486.00	863.00	81.00	51.10	204.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	3,483.50	3,396.13	331.00	75.00	57.00	
COOLING PONDS ($1,000)				30.00		
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	11.20	63.20	2.50	20.00	31.56	
COST OF CHEMICAL ADDITIVES ($1,000)				1.00	.90	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	27.20	49.50	1.00	24.00	3.47	
COST OF CHEMICAL ADDITIVES ($1,000)	1.00	34.60	.60	18.00	7.20	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	HOLYOKE WATER POWER CO.		INDIANA STATEWIDE REC		HOUSTON LIGHTING & POWER CO.		HOUSTON LIGHTING & POWER CO.		HOUSTON LIGHTING & POWER CO.	1
2		2										2
3		3										3
4	NAME OF PLANT	4	RIVERSIDE		PETERSBURG		DEEPWATER		GABLE STREET		GREEN BAYOU	4
5	UTILITY-PLANT CODE	5	214500-0600		216800-0100		218500-0100		218500-0300		218500-0400	5
6	STATE	6	MASSACHUSETTS		INDIANA		TEXAS		TEXAS		TEXAS	6
7	COUNTY	7	HAMPDEN		PIKE		HARRIS		HARRIS		HARRIS	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	042 01		077 05		216 12		216 12		216 12	8
9	PLANT CAPACITY (MW)	9	44.75		233.20		334.85		84.10		375.00	9
10	ANNUAL GENERATION (MWH) [3]	10	88,200		915,700		953,000		91,000		637,400	10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	16,260		11,557		11,862		14,481		12,535	11
	AIR QUALITY CONTROL DATA											
	FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)	12			492.20							12
13	AVERAGE HEAT CONTENT (BTU/LB)	13			10,622							13
14	AVERAGE SULFUR CONTENT (%)	14			3.87							14
15	AVERAGE ASH CONTENT (%)	15			15.64							15
16	AVERAGE MOISTURE CONTENT (%)	16			11.53							16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	364.00		15.20							17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	149,632		137,160							18
19	AVERAGE SULFUR CONTENT (%)	19	2.14		.20							19
20	GAS: CONSUMPTION (1,000 MCF)	20					14,880.70		1,255.00		7,682.80	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21					1,036		1,050		1,040	21
	PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.	22	7		2		9		10		4	22
23	- NO. OF WET BOTTOM	23										23
24	- NO. WITH FLY ASH REINJECTION	24										24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	1		2							25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26										26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27										27
28	- NO. WITH DESULFURIZATION SYSTEMS	28										28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	15.00 20.00		18.00		12.00 15.00		10.00 18.00		7.00 8.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	94.00		88.00							30
31	TESTED, LOW - HIGH	31										31
32	ESTIMATED, LOW - HIGH	32	94.00		85.00							32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33										33
34	TESTED, LOW - HIGH	34										34
35	EST., LOW - HIGH	35										35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36										36
37	TESTED, LOW - HIGH	37										37
38	ESTIMATED, LOW - HIGH	38										38
	PLANT OPERATING DATA AND COST OF EQUIPMENT											
39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39	.03		9.82							39
40	SULFUR DIOXIDE (1,000 TONS)	40	2.61		37.34							40
41	NITROGEN OXIDES (1,000 TONS)	41	.80		4.46		2.90		.24		1.50	41
42	STACKS: - TOTAL NO.	42	5		2		4		5		8	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	65.00 97.00		300.00		166.00 339.00		73.00 102.30		95.00 119.80	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44	.01									44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45	.04		71.33							45
46	SOLD (1,000 TONS) [11]	46										46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47										47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48										48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49										49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50			146.00							50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51										51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52										52
53	DESULFURIZATION SYSTEMS ($1,000)	53										53
54	STACKS ($1,000)	54			318.00							54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	.30		1.00							55
56	REVENUES FROM SALE OF ASH ($1,000)	56										56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57										57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58										58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59	2.57		1.00							59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60										60
	WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R CONNECTICUT		R WHITE		D HOUSTON CHANL		W		W	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	90.00		260.70		532.00		.37		3.10	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	90.00		260.60		532.00		.11		.74	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	.77		2.24	.10			.26		2.36	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	AUG DEC		JUN JAN		AUG DEC		AUG DEC		AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	77.00 43.00		76.00 40.00		93.00 69.00					66
67	AT OUTFALL, SUMMER - WINTER	67	95.00 62.00		88.00 63.00		109.00 90.00					67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	2,183.00		7.00				142.00			68
69	- WINTER	69	6,982.00		7.00				50.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D [16]	70			C							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	3.00		.20		.40 6.65		.10		4.50	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	64.00		42.93		13.33		1.29		100.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73										73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	5.95									74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	2.60 5.00				7.00		2.25		7.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES		YES		YES		YES YES		YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [16]	77	DT		ST		ST		PS		ST	77
78	RECEIVING WATER BODY	78	R CONNECTICUT		O DRAIN FIELD		O HOUSTON CHANL				O GREENS BAYOU	78
79	POND DISCHARGE: [16] PH, BOILER BLOWDOWN - ASH SETTLING	79			9.20 9.20							79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80										80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81			889.11							81
82	- ASH SETTLING	82										82
	COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (MW) USING [2]: ONCE THROUGH COOLING (FRESH)	83	5 44.75		2 233.20							83
84	ONCE THROUGH COOLING (SALINE)	84							4 26.10			84
85	COOLING PONDS	85										85
86	COOLING TOWERS	86					1 12.00		2 53.00		4 375.00	86
87	COMBINATION [17]	87					6 322.85		1 5.00			87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1922 1948		1969		1924 1955		1908 1950		1949 1953	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	18.00		14.70		9.20 19.50		14.00 16.00		15.40 16.25	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	90.00		318.00		771.10		322.20		622.40	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	90.00		318.60		787.00		199.00			91
	CAPITAL COSTS OF COOLING FACILITIES											
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92										92
93	COOLING PONDS ($1,000)	93										93
94	COOLING TOWERS ($1,000)	94										94
	ANNUAL COOLING WATER EXPENSES											
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	7.50		2.00							95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	.22				.82		437.00		2.19	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	15.00		6.00							97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	12.00		5.70		15.32		546.00		11.21	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.		
NAME OF PLANT	CLARKE	ROBINSON	BERTRON	WHARTON	PARISH		
UTILITY-PLANT CODE	218500-0500	218500-0600	218500-0700	218500-0800	218500-0900		
STATE	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS		
COUNTY	HARRIS	GALVESTON	HARRIS	HARRIS	FORT BEND		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	216 12	216 12	216 12	216 12	216 12		
PLANT CAPACITY (MW)	210.00	1,549.50	826.30	322.80	1,255.40		
ANNUAL GENERATION (MWH) [3]	257,900	9,361,500	4,404,000	1,438,600	7,760,100		
PLANT HEAT RATE (BTU/KWH) [3]	13,634	9,624	10,142	10,379	9,825		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)							
AVERAGE HEAT CONTENT (BTU/LB)							
AVERAGE SULFUR CONTENT (%)							
AVERAGE ASH CONTENT (%)							
AVERAGE MOISTURE CONTENT (%)							
OIL: CONSUMPTION (1,000 BARRELS)					.01		
AVERAGE HEAT CONTENT (BTU/GAL)					148,106		
AVERAGE SULFUR CONTENT (%)					2.90		
GAS: CONSUMPTION (1,000 MCF)	3,354.80	87,171.10	43,410.90	14,449.00	73,295.40		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,049	1,033	1,029	1,034	1,040		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	4	4	2	4		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS							
- NO. WITH ELECTROSTATIC PRECIPITATORS							
- NO. WITH COMBINATION PRECIPITATORS [4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00 12.90	8.00 24.20	22.70 28.20	18.00	18.50 18.90		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
EST., LOW - HIGH							
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)							
SULFUR DIOXIDE (1,000 TONS)	.65	17.00	8.47	2.82	14.29		
NITROGEN OXIDES (1,000 TONS)	6	6	8	4	7		
STACKS: - TOTAL NO.							
- HEIGHT (FEET), LOWEST - HIGHEST [8]	98.80 125.00	197.00 284.00	166.50 177.50	140.00 177.50	167.70 182.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
TOTAL ASH: COLLECTED (1,000 TONS) [10]							
SOLD (1,000 TONS) [11]							
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)							
COMBINATION PRECIPITATORS ($1,000) [4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)							
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]							
TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	B DICKINSON	O HOUSTON CHANL	W	C ORY		
AVERAGE RATE OF WITHDRAWAL (CFS)	1.61	1,626.30	1,105.60	6.60	37.30		
AVERAGE RATE OF DISCHARGE (CFS)	.99	1,626.30	1,105.60	3.10	15.90		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.62			3.50	16.10		
PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG OEC	AUG OEC	AUG OEC	AUG OEC	AUG OEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		92.00 73.00	90.00 68.00				
AT OUTFALL, SUMMER - WINTER		105.00 88.00	104.00 77.00				
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	8.14			6.26	9.50		
- WINTER	22.00			8.98	7.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.30		.94 .90	.08	.13		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	3.86	1,850.92	106.21	5.98	45.90		
LIME (TONS), COOLING WATER - BOILER MAKEUP							
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	6.75	540.00	40.00	8.00	159.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES YES	YES YES	YES	YES YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST	ST		
RECEIVING WATER BODY	O SIMS BAYOU	B GALVESTON	O HOUSTON CHANL	O GREENS BAYOU	L SMITHERS		
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING				8.00			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				70.00			
VOLUME 11,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING							

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)							
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)							
COOLING TOWER(S)	4 210.00			2 322.80			
COMBINATIONS [21]		3 1,549.50	4 826.30		4 1,255.40		
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1943 1951	1966 1968	1956 1960	1958 1960	1958 1968		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00 16.60	17.38 18.03	14.21 15.05	17.73 18.10	14.10 16.50		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	450.00	1,736.00	1,144.00	383.00	1,660.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		1,736.00	1,144.00				

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)							
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)							
COST OF CHEMICAL ADDITIVES ($1,000)	1.31	47.56	4.42	3.88	13.81		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)							
COST OF CHEMICAL ADDITIVES ($1,000)	8.98	108.13	23.97	6.35	18.35		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	HOUSTON LIGHTING & POWER CO.		HOUSTON LIGHTING & POWER CO.		ILLINOIS POWER CO.		ILLINOIS POWER CO.		ILLINOIS POWER CO.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	WEBSTER		CEDAR BAYOU		HAVANA		HENNEPIN		VERMILION		4
5	UTILITY-PLANT CODE	5	218500-1000		218500-1100		222500-0200		222500-0300		222500-0600		5
6	STATE	6	TEXAS		TEXAS		ILLINOIS		ILLINOIS		ILLINOIS		6
7	COUNTY	7	HARRIS		CHAMBERS		MASON		PUTNAM		VERMILION		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	216 12		216 12		065 07		071 07		066 05		8
9	PLANT CAPACITY (MW)	9	614.00		765.00		260.00		311.00		182.30		9
10	ANNUAL GENERATION (MWH) [3]	10	2,330,400		280,700		917,000		1,944,000		1,082,000		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	10,398		10,860		12,435		9,851		10,530		11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12					535.10		480.20		520.40		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13					10,563		11,139		11,020		13
14	AVERAGE SULFUR CONTENT (%)	14					3.05		3.05		2.84		14
15	AVERAGE ASH CONTENT (%)	15					8.77		11.92		9.68		15
16	AVERAGE MOISTURE CONTENT (%)	16					17.31		10.54		14.08		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	.11				2.80				.10		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	154,332				140,000				140,000		18
19	AVERAGE SULFUR CONTENT (%)	19	2.90				.10				.10		19
20	GAS: CONSUMPTION (1,000 MCF)	20	23,466.40		2,959.20				8,038.70				20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,032		1,033				1,051				21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	3		4		8		2		2		22
23	- NO. OF WET BOTTOM	23											23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25					8		2		2		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26											26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27											27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	7.00 15.70		8.00 15.50		25.00	25.00	31.00		24.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30					15.00	83.80	85.00	86.00	87.00		30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32					15.00	83.80	85.00	86.00	87.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33											33
34	TESTED, LOW - HIGH	34											34
35	EST., LOW - HIGH	35											35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39					33.91		7.43		5.75		39
40	SULFUR OXIDES (1,000 TONS)	40					31.99		28.71		28.93		40
41	NITROGEN OXIDES (1,000 TONS)	41	4.58		.58		4.82		5.89		4.68		41
42	STACKS: - TOTAL NO.	42	6		2		3		1		1		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	119.80 192.00		215.25 215.50		225.00		275.00		275.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45					10.99		50.03		44.20		45
46	SOLD (1,000 TONS) [11]	46											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50							219.00		121.00		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51											51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52											52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54					287.00		307.00		235.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55					13.60		22.90		39.70		55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59					13.60		22.90		39.70		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60											60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES: R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	C CLEAR		O CEDAR BAYOU		R ILLINOIS		R ILLINOIS		O RESERVOIR		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	781.67		751.33		287.00		243.00		3.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	781.67		751.33		287.00		243.00				63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64			6.46		2.47		2.09		3.00		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	AUG	DEC		DEC	JUL	DEC	JUL	DEC			65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	96.00	72.00		81.00	86.00	40.00	86.00	53.00			66
67	AT OUTFALL, SUMMER - WINTER	67	108.00	88.00		87.00	93.00	49.00	99.00	65.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68						22,910.00		17,900.00			68
69	- WINTER	69						12,600.00		12,700.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D: C [16]	70			C								70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		.14				.61		1.28		1.11	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		13.11						62.90			72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73									369.30	8.00	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74									76.75	1.70	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	218.00		38.00		42.00		47.00		20.50		75
76	OTHER (TYPE) (TONS), COOLING WATER - BOILER MAKEUP [17]	76	YES	YES		YES		YES		YES		YES	76
77	SEWAGE DISPOSAL: METHOD (S, ST, SW, OT) [18]	77	ST		ST		OT		ST		ST		77
78	RECEIVING WATER BODY	78	L CLEAR		O CEDAR BAYOU		R ILLINOIS						78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79					10.00	9.50	10.00	9.50	9.50	9.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80					70.00	400.00	5.00	400.00	20.00	1,000.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81						539.00		216.00		120.00	81
82	- ASH SETTLING	82						29,000.00		9,350.00		15,500.00	82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83					5	260.00	2	306.29			83
84	ONCE THROUGH COOLING (SALINE)	84			1	765.00							84
85	COOLING POND(S)	85											85
86	COOLING TOWER(S)	86									2	182.30	86
87	COMBINATION [21]	87	3	614.00									87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1954	1965		1970	1947	1950	1953	1959	1955	1956	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	16.02	16.25		20.00		7.50	12.00	16.00	14.00	15.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		869.00		751.10		715.00		356.10		267.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		869.00		751.10		650.00		356.10			91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92						2,695.00		2,054.00			92
93	COOLING PONDS ($1,000)	93											93
94	COOLING TOWERS ($1,000)	94										2,693.00	94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95						16.60		2.60		17.60	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		18.97		3.31		4.20		4.70		2.10	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97						27.10		14.25		25.40	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		11.60		34.32		11.80		12.30		36.20	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	ILLINOIS POWER CO.	ILLINOIS POWER CO.	IMPERIAL IRRIGATION DIST.	INDIANA & MICHIGAN ELECTRIC CO.	INDIANA & MICHIGAN ELECTRIC CO.	
4	NAME OF PLANT	WOOD RIVER	BALDWIN	EL CENTRO	BREED	TANNERS CREEK	
5	UTILITY-PLANT CODE	222500-0700	222500-0800	223000-0700	225000-0200	225000-0700	
6	STATE	ILLINOIS	ILLINOIS	CALIFORNIA	INDIANA	INDIANA	
7	COUNTY	MADISON	RANDOLPH	IMPERIAL	SULLIVAN	DEARBORN	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	070 07	070 07	033 18	084 05	079 05	
9	PLANT CAPACITY (MW)	650.10	623.00	189.60	450.00	1,098.00	
10	ANNUAL GENERATION (MWH)[3]	3,587,800	1,739,500	476,500	2,257,200	5,914,450	
11	PLANT HEAT RATE (BTU/KWH)[3]	10,272	9,933	10,981	9,399	9,356	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	1,449.50	844.90		978.70	2,468.20	
13	AVERAGE HEAT CONTENT (BTU/LB)	10,994	9,783		10,845	11,075	
14	AVERAGE SULFUR CONTENT (%)	2.87	4.07		3.76	3.52	
15	AVERAGE ASH CONTENT (%)	10.67	19.23		11.56	13.42	
16	AVERAGE MOISTURE CONTENT (%)	11.51	11.56		13.51	9.77	
17	OIL: CONSUMPTION 11,000 BARRELS)	6.00	12.30	.66			
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	140,000	151,113			
19	AVERAGE SULFUR CONTENT (%)	.10	.10	1.99			
20	GAS: CONSUMPTION (1,000 MCF)	4,772.50		4,926.70			
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,035		1,057			

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	5	1	4	1	4	
23	- NO. OF WET BOTTOM		1		1	1	
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS	5			1	3	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1	1			1	
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00 25.00	16.00	12.00 15.00	20.00	20.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	15.00 90.00				85.00 87.30	
31	TESTED, LOW - HIGH					72.20 77.90	
32	ESTIMATED, LOW - HIGH	15.00 90.00				75.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00	99.00			90.00	
34	TESTED, LOW - HIGH	99.10	98.60				
35	EST., LOW - HIGH					74.70	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	27.30	.23		11.31	46.10	
40	SULFUR DIOXIDE (1,000 TONS)	81.59	67.40		72.13	170.29	
41	NITROGEN OXIDES (1,000 TONS)	13.99	23.26	.96	26.91	40.47	
42	STACKS: - TOTAL NO.	3	1	4	1	4	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	250.00 350.00	605.00	99.00 107.00	550.00	273.00 550.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	113.80	166.90		111.80	354.80	
46	SOLD (1,000 TONS)[11]				.20	23.60	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	447.00					
51	ELECTROSTATIC PRECIPITATORS ($1,000)	2,170.00	2,900.00			1,004.00	
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	892.00	930.00	53.80		979.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	95.60	22.00		46.30	204.80	
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	95.60	22.00		46.30	204.80	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	R KASKASKIA	O STORAGE BASINS	R WABASH	R OHIO	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	645.20		1.75	637.00	1,420.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	645.20		.14	635.70	1,420.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	5.55		1.61	1.30 5.48	12.21	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	AUG JAN	AUG OCT	AUG OCT	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 40.00		90.00 57.00	83.00 41.00	85.00 49.00	
67	AT OUTFALL, SUMMER - WINTER	103.00 63.00		117.00 93.00	95.00 52.00	96.00 60.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	263,500.00	2,530.00	.31	10,440.00	24,600.00	
69	- WINTER	67,900.00	3,095.00	.12	10,440.00	24,600.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, L[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.75	.80	8.28 .13		.60	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	615.00	157.00	.05	10.00	.14	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	10.00	74.00		20.00		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		43.00				
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	220.00	25.00 5.00	17.74	24.00	185.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES YES	YES	YES YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	OT	ST	ST	OT	
78	RECEIVING WATER BODY	O MISSISSIPPI	O COOLING POND		R WABASH	R OHIO	
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	9.00 9.50	8.00		8.40	9.60	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	35.00 300.00				12.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	2,800.00					
82	- ASH SETTLING	175,000.00	187,000.00		30,500.00	120,000.00	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	5 655.50			1 495.60	4 1,100.30	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING PONDS(S)		1 623.00				
86	COOLING TOWER(S)			4 189.10			
87	COMBINATIONS[21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949 1964	1970	1949 1968	1960	1951 1964	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	6.00 23.00	14.00	15.00 21.00	12.20	6.00 13.60	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	912.00	720.00	277.50	669.90	1,589.70	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)	912.00			720.00	1,649.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	3,900.00				1,737.00	
93	COOLING PONDS ($1,000)		3,000.00				
94	COOLING TOWERS ($1,000)			1,642.10			

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	13.10	5.50	23.34	22.90	50.60	
96	COST OF CHEMICAL ADDITIVES ($1,000)	22.00	3.00	19.06	.90	14.40	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	29.30	17.40	7.20	5.00	17.40	
98	COST OF CHEMICAL ADDITIVES ($1,000)	77.20	89.90	5.29	11.50	15.20	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	INDIANA & MICHIGAN ELECTRIC CO.	INDIANA-KENTUCKY ELECTRIC CORP.	INDIANAPOLIS POWER & LIGHT CO.	INDIANAPOLIS POWER & LIGHT CO.	INDIANAPOLIS POWER & LIGHT CO.		
4	NAME OF PLANT	TWIN BRANCH	CLIFTY CREEK	STOUT	PRITCHARD	PERRY		
5	UTILITY-PLANT CODE	225000-0800	225500-0100	226000-0100	226000-0200	226000-0300		
6	STATE	INDIANA	INDIANA	INDIANA	INDIANA	INDIANA		
7	COUNTY	ST. JOSEPH	JEFFERSON	MARION	MORGAN	MARION		
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	082 04	083 05	080 05	080 05	080 05		
9	PLANT CAPACITY (MW)	394.00	1,304.00	307.59	393.64	47.50		
10	ANNUAL GENERATION (MWH) [3]	1,381,400	9,057,100	1,496,900	1,509,900	78,900		
11	PLANT HEAT RATE (BTU/KWH) [3]	12,037	9,377	10,888	11,362	16,817		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	791.30	3,904.00	714.80	775.10	289.40		
13	AVERAGE HEAT CONTENT (BTU/LB)	10,558	11,031	11,399	11,065	11,075		
14	AVERAGE SULFUR CONTENT (%)	3.40	3.12	3.74	2.45	3.16		
15	AVERAGE ASH CONTENT (%)	14.41	11.68	9.96	10.81	11.48		
16	AVERAGE MOISTURE CONTENT (%)	11.80	11.81	12.19	14.27	13.40		
17	OIL: CONSUMPTION (1,000 BARRELS)			7.30	9.80			
18	AVERAGE HEAT CONTENT (BTU/GAL)							
19	AVERAGE SULFUR CONTENT (%)			.10	.10			
20	GAS: CONSUMPTION (1,000 MCF)					55.00		
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)							

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	12	6	12	6	6		
23	- NO. OF WET BOTTOM	4	6	2	3			
24	- NO. WITH FLY ASH REINJECTION					2		
25	- NO. WITH MECHANICAL PRECIPITATORS	4		3	6	2		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					4		
27	- NO. WITH COMBINATION PRECIPITATORS [4]		6	1				
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	17.50	15.00		13.00 33.00		
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00		78.50 90.20	75.00	92.50		
31	TESTED, LOW - HIGH			66.00	72.00 76.70			
32	ESTIMATED, LOW - HIGH	25.00 50.00		66.00 80.00	75.00	75.00		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		96.10	98.90		90.00 97.00		
34	TESTED, LOW - HIGH			99.00		96.40 99.00		
35	EST., LOW - HIGH		96.10	99.00		96.40 99.00		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	51.89	11.56	9.88	16.97	1.38		
40	SULFUR DIOXIDE (1,000 TONS)	52.73	238.74	52.40	37.22	17.92		
41	NITROGEN OXIDES (1,000 TONS)	10.77	58.56	6.94	7.93	2.58		
42	STACKS: - TOTAL NO.	4	3	12	3	2		
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	269.00	682.00	134.00 250.00	250.00	272.00		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	85.40	452.50	54.30	56.20	27.80		
46	SOLD (1,000 TONS) [11]	11.90	12.00	4.50		10.30		
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			180.00	294.70	48.90		
51	ELECTROSTATIC PRECIPITATORS ($1,000)					662.20		
52	COMBINATION PRECIPITATORS ($1,000) [4]		3,390.00	415.50				
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)		2,886.00	318.00	249.50	107.96		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	83.90	614.00	47.60	82.90	104.00		
56	REVENUES FROM SALE OF ASH ($1,000)		7.00			9.60		
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	83.90	614.00	47.60	82.90	104.00		
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		7.00			9.60		

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ST. JOSEPH	R OHIO	R WHITE	R WHITE	R WHITE		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	385.00	2,130.00	236.80	263.50	8.50		
63	AVERAGE RATE OF DISCHARGE (CFS)	385.00	2,130.00	236.80	263.50	8.50		
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.31	18.32					
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG DEC	MAY JAN	JUL JAN	JUL JAN	JUL JAN		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	77.00 38.00	77.00 40.00	88.70 56.90				
67	AT OUTFALL, SUMMER - WINTER	89.00 50.00	89.00 52.00					
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	3,020.00						
69	- WINTER	3,020.00						
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]							
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.60		7.35	2.11	4.65		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.15		.40		234.19		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	50.00		67.00	44.25	677.10		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP [17]	12.00	210.00	134.50 5.00	185.64	9.00		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES YES	YES	YES	YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, CT [18]	ST	OT	ST	ST	PS		
78	RECEIVING WATER BODY		R OHIO					
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	8.10	7.55			10.50		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	15.00	100.00					
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					2.50		
82	- ASH SETTLING		585.59					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	5 394.00	6 1,303.56		1 113.64			
84	ONCE THROUGH COOLING (SALINE)							
85	COOLING POND(S)							
86	COOLING TOWER(S)							
87	COMBINATIONS [21]			6 375.78	5 280.00	4 47.50		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1925 1949	1955 1956	1931 1961	1949 1956	1938		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	9.70 12.60	12.00	19.00 19.50	19.00 19.50			
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	594.80	2,032.20	501.00	481.40	133.00		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,054.00	2,032.20	501.00	481.40	89.00		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		3,504.00	2,309.70	1,806.10	646.00		
93	COOLING PONDS ($1,000)							
94	COOLING TOWERS ($1,000)			889.40	323.20			

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	5.40	204.00	31.90	22.03	12.80		
96	COST OF CHEMICAL ADDITIVES ($1,000)	2.30	21.00	19.60	19.80	1.10		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.30	36.00	78.90	30.00	112.20		
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.30	9.00	8.60	7.20	30.00		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	INDIANAPOLIS POWER & LIGHT CO.	INTERSTATE POWER CO.	INTERSTATE POWER CO.	INTERSTATE POWER CO.	INTERSTATE POWER CO.	
4	NAME OF PLANT	PETERSBURG	DUBUQUE	FOX LAKE	LANSING	KAPP	
5	UTILITY-PLANT CODE	226000-0500	227000-0300	227000-0400	227000-0700	227000-0800	
6	STATE	INDIANA	IOWA	MINNESOTA	IOWA	IOWA	
7	COUNTY	PIKE	DUBUQUE	MARTIN	ALLAMAKEE	CLINTON	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	077 05	068 07	128 07	088 07	069 07	
9	PLANT CAPACITY (MW)	724.44	91.25	104.60	64.00	237.20	
10	ANNUAL GENERATION (MWH) [3]	4,398,500	369,300	396,200	228,300	1,387,100	
11	PLANT HEAT RATE (BTU/KWH) [3]	9,398	13,675	11,272	12,764	10,161	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	1,885.20	138.00	18.00	129.00	477.00	
13	AVERAGE HEAT CONTENT (BTU/LB)	10,955	11,378	10,912	11,317	11,121	
14	AVERAGE SULFUR CONTENT (%)	3.62	3.12	2.03	3.08	3.21	
15	AVERAGE ASH CONTENT (%)	11.85	10.32	10.36	10.42	12.13	
16	AVERAGE MOISTURE CONTENT (%)	13.33	11.01	11.76	10.87	11.03	
17	OIL: CONSUMPTION (1,000 BARRELS)	17.50	1.70	374.00	1.00		
18	AVERAGE HEAT CONTENT (BTU/GAL)		140,000	151,057	140,000		
19	AVERAGE SULFUR CONTENT (%)	.10	.50	2.76	.50		
20	GAS: CONSUMPTION (1,000 MCF)		1,900.00	1,696.00		3,492.00	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,005	1,005		1,000	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	5	3	3	2		
23	- NO. OF WET BOTTOM		2	2	3	2		
24	- NO. WITH FLY ASH REINJECTION							
25	- NO. WITH MECHANICAL PRECIPITATORS		2					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1				1		
27	- NO. WITH COMBINATION PRECIPITATORS [4]	1						
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]		25.00	20.00 28.00	25.00	18.00 25.00		
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		77.00 87.00					
31	TESTED, LOW - HIGH		64.00 75.50					
32	ESTIMATED, LOW - HIGH		60.00 74.00					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	97.00				98.00		
34	TESTED, LOW - HIGH	93.42				99.10		
35	EST., LOW - HIGH	93.40				98.70		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	8.06	4.54	1.27	8.74	1.34		
40	SULFUR OIOXIDE (1,000 TONS)	133.76	8.44	4.18	7.79	30.01		
41	NITROGEN OXIDES (1,000 TONS)	17.01	1.99	1.43	1.94	7.84		
42	STACKS: - TOTAL NO.	1	5	2	2	2		
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	550.00	106.00 128.00	142.00	151.00	175.00 245.00		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	194.70	9.50	.40	2.10	46.00		
46	SOLD (1,000 TONS) [11]							
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		196.00					
51	ELECTROSTATIC PRECIPITATORS ($1,000)	836.00				365.00		
52	COMBINATION PRECIPITATORS ($1,000) [4]	718.10						
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)	772.00	47.00	92.28	17.20	239.40		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	85.00	22.00	1.00	2.50	87.00		
56	REVENUES FROM SALE OF ASH ($1,000)							
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	85.00	22.00	1.00	2.50	87.00		
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. ,N FOOTNOTES)	R WHITE	R MISSISSIPPI	L FOX	R MISSISSIPPI	R MISSISSIPPI		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	501.40	67.00	70.00	55.00	158.00		
63	AVERAGE RATE OF DISCHARGE (CFS)	501.40	67.00	70.00	55.00	158.00		
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	4.31	.58	.60	.47	1.36		
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL JAN	JUN DEC	JUN DEC	JUN DEC	JUN DEC		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		79.00 34.00	76.00 38.00	78.00 36.00	82.00 42.00		
67	AT OUTFALL, SUMMER - WINTER		95.00 56.00	94.00 58.00	93.00 51.00	102.00 84.00		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		65,000.00		48,500.00	70,000.00		
69	- WINTER		35,000.00		29,600.00	37,000.00		
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]							
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.15	.62	.28	.39	1.09		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.29	15.14	16.34	6.89	23.72		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	86.00		8.73				
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	48.00 1.60	1.43	1.48	.61	29.76		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	PS	ST	ST	PS		
78	RECEIVING WATER BODY	R WHITE						
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	9.60	9.40 8.60	9.50 7.60	9.50 7.60	9.50 8.30		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	720.00	810.00	895.00	800.90	3,100.00		
82	- ASH SETTLING		4,104.00	780.00	10,600.00	2,957.00		

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 724.44	4 91.25	3 104.60	3 64.00	2 237.20		
84	ONCE THROUGH COOLING (SALINE)							
85	COOLING PONDS)							
86	COOLING TOWERS)							
87	COMBINATIONS [21]							
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM		1926 1959	1950 1962	1948 1957	1947 1967		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	23.50 25.00	9.30 16.30	12.80 17.40	11.50 16.30	10.40 21.40		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	633.70	220.00	147.00	134.00	263.00		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	633.70	220.00	147.00	134.00	263.00		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	3,256.00	266.00	353.00	557.00	822.00	
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	31.40	10.00	11.00	9.00	24.00	
96	COST OF CHEMICAL ADDITIVES ($1,000)	4.86	.40	.30	.20	4.90	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	78.90	14.00	9.50	8.20	25.40	
98	COST OF CHEMICAL ADDITIVES ($1,000)	13.70	6.60	6.80	2.80	8.30	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	
NAME OF PLANT	800NE	SIXTH STREET	PRAIRE CREEK #4	PRAIRE CREEK #I-3	SUTHERLAND	
UTILITY-PLANT CODE	228500-0600	228500-0800	228500-2100	228500-2200	228500-2600	
STATE	IOWA	IOWA	IOWA	IOWA	IOWA	
COUNTY	800NE	LINN	LINN	LINN	MARSHALL	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	092 07	088 07	088 07	088 07	092 07	
PLANT CAPACITY (MW)	34.20	92.20	148.70	96.00	156.60	
ANNUAL GENERATION (MWH) [3]	144,900	190,600	725,300	492,800	873,600	
PLANT HEAT RATE (BTU/KWH) [3]	13,208	19,903	9,942	12,306	11,361	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	10.00	262.50	249.00	125.00	163.00	
AVERAGE HEAT CONTENT (BTU/LB)	8,654	9,274	10,138	10,144	9,313	
AVERAGE SULFUR CONTENT (%)	4.54	2.03	2.55	2.57	4.15	
AVERAGE ASH CONTENT (%)	24.11	8.86	9.55	9.72	17.22	
AVERAGE MOISTURE CONTENT (%)	14.79	20.84	18.69	18.45	16.56	
OIL: CONSUMPTION (1,000 BARRELS)		3.00	.40	.74		
AVERAGE HEAT CONTENT (BTU/GAL)		157,797	138,788	138,918		
AVERAGE SULFUR CONTENT (%)		2.57	.10	.10		
GAS: CONSUMPTION (1,000 MCF)	1,735.00	1,164.00	2,061.00	3,357.00	6,844.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,005	1,052	1,051	1,051	1,005	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	10	1	3	3	
- NO. OF WET BOTTOM		10	1	1	1	
- NO. WITH FLY ASH REINJECTION				2	1	
- NO. WITH MECHANICAL PRECIPITATORS	2	8	1	3	3	
- NO. WITH ELECTROSTATIC PRECIPITATORS		6				
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	22.00 24.00	20.00 25.00	20.00	22.00 25.00	16.00 22.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	80.00	47.00 78.00	80.00	85.00	80.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH	80.00	47.00 78.00	80.00	80.00	80.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		98.00				
TESTED, LOW - HIGH		98.00				
EST., LOW - HIGH		98.00				
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.41	1.57	3.09	2.26	1.78	
SULFUR DIOXIDE (1,000 TONS)	.89	10.47	12.45	6.30	13.26	
NITROGEN OXIDES (1,000 TONS)	.43	4.17	4.14	2.15	4.97	
STACKS: - TOTAL NO.	2	10	1	2	3	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	183.00	198.00	200.00	180.00	190.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	2.00	21.60	20.60	10.80	26.70	
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	53.00	230.00	56.80	75.00	157.00	
ELECTROSTATIC PRECIPITATORS ($1,000)		1,088.00				
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)						
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	27.00	76.00	120.90	104.00	62.00	
REVENUES FROM SALE OF ASH ($1,000)	3.00	41.00	27.00	11.00	18.00	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	3.00	41.00	27.00	11.00	18.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, R, C, W, M & O EXPL. IN FOOTNOTES)	M	O LOCAL RUNOFF	R CEDAR	R CEDAR	W	
AVERAGE RATE OF WITHDRAWAL (CFS)	.75	5.50	113.00	105.00	3.60	
AVERAGE RATE OF DISCHARGE (CFS)	.12	5.50	115.00	107.00	.60	
AVG. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.63		.97	.90	3.00	
PEAK LOAD MONTH : SUMMER - WINTER [15]			JUL DEC	JUL DEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			87.00 42.00	87.00 42.00		
AT OUTFALL, SUMMER - WINTER			108.00 72.00	101.00 72.00		
AVG. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			3,059.00	3,059.00		
- WINTER			1,475.00	1,475.00		
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, C [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS) [1], COOLING WATER - BOILER MAKEUP	.15	1.00	.23	.10	.25	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	11.60		22.00	12.50	.01	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.70	14.00	24.00	14.40	35.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES	YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	PS	ST	ST	ST	
RECEIVING WATER BODY [18]						
POND DISCHARGE? PH, BOILER BLOWDOWN - ASH SETTLING	10.70	10.90 10.70	10.20	10.30	10.50	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	7.50	28.00 80.00	15.00	7.50	7.50	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	16.00	4,450.00	17.00	28.00	14.00	
- ASH SETTLING		236.00	1,926.54	88.54		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)			1 148.70	3 96.00		
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS		7 92.25				
COOLING TOWERS	4 34.20				3 156.60	
COMBINATIONS [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1942 1953	1917 1950	1967	1950 1958	1955 1961	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00 20.00	12.00 18.20	20.00	15.00 16.20	15.80 16.10	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	86.90	31.90	157.00	163.00	220.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			158.00	163.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)			1,133.50	663.50	.	
COOLING PONDS ($1,000)		314.00				
COOLING TOWERS ($1,000)	376.00				1,250.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.00	12.00	15.50	2.00	11.00	
COST OF CHEMICAL ADDITIVES ($1,000)	7.00	2.00	4.50	4.00	47.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.00	126.00	16.00	5.00	7.00	
COST OF CHEMICAL ADDITIVES ($1,000)	3.00	1.00	5.00	4.50	17.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	IOWA-ILLINOIS GAS & ELECTRIC CO.	IOWA-ILLINOIS GAS & ELECTRIC CO.	IOWA PUBLIC SERVICE CO.	IOWA PUBLIC SERVICE CO.	IOWA PUBLIC SERVICE CO.	
NAME OF PLANT	MOLINE	RIVERSIDE	BIG SIOUX	GEORGE NEAL	MAYNARD	
UTILITY-PLANT CODE	229000-0200	229000-0300	229500-0200	229500-0800	229500-1300	
STATE	ILLINOIS	IOWA	IOWA	IOWA	IOWA	
COUNTY	ROCK ISLAND	SCOTT	WOODBURY	WOODBURY	BLACK HAWK	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	069 07	069 07	086 1G	086 1C	088 07	
PLANT CAPACITY (MW)	99.14	244.51	40.00	147.00	107.40	
ANNUAL GENERATION (MWH) [3]	385,300	385,300	50,900	1,009,000	446,300	
PLANT HEAT RATE (BTU/KWH) [3]	13,349	11,790	18,172	9,568	12,245	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	22.70	360.00	2.74	217.03	89.00	
AVERAGE HEAT CONTENT (BTU/LB)	10,588	10,605	12,476	10,420	11,160	
AVERAGE SULFUR CONTENT (%)	1.82	1.79	3.60	.91	3.08	
AVERAGE ASH CONTENT (%)	8.99	8.51	11.11	9.11	10.86	
AVERAGE MOISTURE CONTENT (%)	16.15	16.34	4.05	13.26	11.81	
OIL: CONSUMPTION (1,000 BARRELS)	5.50		2.07			
AVERAGE HEAT CONTENT (BTU/GAL)	137,645		140,000			
AVERAGE SULFUR CONTENT (%)	.40		1.00			
GAS: CONSUMPTION (1,000 MCF)	4,405.00	11,778.00	823.83	5,568.71	3,543.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,051	1,051	1,008	1,007	1,007	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	9	9	4	1	5	
- NO. OF WET BOTTOM		4		1		
- NO. WITH FLY ASH REINJECTION					3	
- NO. WITH MECHANICAL PRECIPITATORS		3			5	
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	5.00 25.00	5.00	25.00	10.40	25.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		89.00			82.00 87.50	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH		85.00 87.00			85.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	1.33	8.08	.26	1.98	1.47	
SULFUR DIOXIDE (1,000 TONS)	.82	12.63	.20	3.87	5.36	
NITROGEN OXIDES (1,000 TONS)	1.04	5.70	.19	7.05	1.45	
STACKS: - TOTAL NO.	5	7	1	1	3	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	120.00 165.00	144.00 346.00	300.00	250.00	225.00 250.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	.80	15.80		18.70	9.80	
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		168.90			95.00	
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	35.30	240.30	35.30	53.20	121.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	9.00	34.00		16.58	14.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	9.00	34.00		16.58	14.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES A, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	R MISSISSIPPI	R BIG SIOUX	R MISSOURI	R CEDAR	
AVERAGE RATE OF WITHDRAWAL (CFS)	116.00	331.40	34.50	158.90	147.00	
AVERAGE RATE OF DISCHARGE (CFS)	116.00	331.40	34.50	158.90	147.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.00	2.85	.30	1.37	1.26	
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL DEC	JUL DEC	JUN DEC	JUN DEC	JUN DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 41.00	85.00 58.00	74.00 40.00	75.00 35.00	73.00 36.00	
AT OUTFALL, SUMMER - WINTER	85.00 42.00	100.00 70.00	82.00 47.00	90.00 62.00	91.00 51.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	29,100.00	29,100.00	3,239.00	38,600.00	19,160.00	
- WINTER	21,000.00	21,000.00	213.00	21,600.00	1,730.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.27	.20	.09	.04	.30	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.13	151.32	.14	.78	23.97	
LIME (TONS), COOLING WATER - BOILER MAKEUP		7.00		83.15		
ALUM (TONS), COOLING WATER - BOILER MAKEUP		65.75		5.43		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.00 9.00	3.53			6.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS ST		PS	ST	PS	
RECEIVING WATER BODY						
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	8.90 8.90		11.00 7.50	9.80	10.50 6.70	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			25.00 25.00		10.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	234.00	415.00	149.00	8.86	1,893.22	
- ASH SETTLING	14.56	319.00	512.00		473.29	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	5 99.10	6 241.40	4 40.00	1 147.00	6 95.00	
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS)						
COOLING TOWERS)						
COMBINATIONS [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1913 1954	1924 1961	1924 1948	1964	1937 1958	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00 23.00	11.50 18.50	12.00	18.00	10.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	277.80	442.80	164.30	158.90	138.90	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	277.80	442.80	133.70	167.10	240.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	427.00	767.00	297.00	725.00	146.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	4.00	8.00		5.60	1.00	
COST OF CHEMICAL ADDITIVES ($1,000)	1.00	2.00			1.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.00	40.00	.50	9.70	14.00	
COST OF CHEMICAL ADDITIVES ($1,000)	1.00	74.00	5.00	2.63	12.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	IOWA POWER & LIGHT CO.		IOWA POWER & LIGHT CO.		IOWA SO. UTIL. CO.		IOWA SO. UTIL. CO.		JACKSONVILLE ELECTRIC LIGHT PLT.	
2		2										
3		3										
4	NAME OF PLANT	4	COUNCIL BLUFFS		OES MOINES #2		BRIDGEPORT		BURLINGTON		KENNEDY	
5	UTILITY-PLANT CODE	5	230000-0100		230000-0200		230500-0100		230500-0200		234500-0100	
6	STATE	6	IOWA		IOWA		IOWA		IOWA		FLORIDA	
7	COUNTY	7	POTTAWATTAMIE		POLK		MONROE		OES MOINES		DUVAL	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	085	10	092	07	092	07	065	07	049	03
9	PLANT CAPACITY (MW)	9		130.60		325.00		71.00		212.00		339.96
10	ANNUAL GENERATION (MWH) 3/	10		806,200		1,639,100		325,700		1,002,500		1,165,400
11	PLANT HEAT RATE (BTU/KWH) 3/	11		10,877		12,374		14,567		10,199		11,182
	AIR QUALITY CONTROL DATA											
	FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)	12		263.30		434.40		237.70		500.40		
13	AVERAGE HEAT CONTENT (BTU/LB)	13		10,756		9,377		10,091		10,240		
14	AVERAGE SULFUR CONTENT (%)	14		1.45		4.32		3.63		2.78		
15	AVERAGE ASH CONTENT (%)	15		8.66		15.09		11.99		8.38		
16	AVERAGE MOISTURE CONTENT (%)	16		12.52		17.31		16.84		19.22		
17	OIL: CONSUMPTION (1,000 BARRELS)	17				8.10				1.26		1,898.00
18	AVERAGE HEAT CONTENT (BTU/GAL)	18				140,000				137,000		149,161
19	AVERAGE SULFUR CONTENT (%)	19				.30				.01		1.24
20	GAS: CONSUMPTION (1,000 MCF)	20		3,084.70		11,983.10						
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,005		1,004						
	PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.	22		2		6		3		1		6
23	- NO. OF WET BOTTOM	23										
24	- NO. WITH FLY ASH REINJECTION	24						3				
25	- NO. WITH MECHANICAL PRECIPITATORS	25		2		5		3				
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26								1		
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27										
28	- NO. WITH DESULFURIZATION SYSTEMS	28										
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	22.00	23.00	7.00	23.00		56.00		20.00	12.00	15.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30		80.00	50.00	80.00		93.00				
31	TESTED, LOW - HIGH	31										
32	ESTIMATED, LOW - HIGH	32		80.00	65.00	75.00		92.50				
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	33								98.00		
34	TESTED, LOW - HIGH	34								98.50		
35	EST., LOW - HIGH	35								85.50		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36										
37	TESTED, LOW - HIGH	37										
38	ESTIMATED, LOW - HIGH	38										
	PLANT OPERATING DATA AND COST OF EQUIPMENT											
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	39		3.88		15.23		3.48		5.17		.32
40	SULFUR DIOXIDE (1,000 TONS)	40		7.49		36.84		16.91		27.27		7.90
41	NITROGEN OXIDES (1,000 TONS)	41		2.97		6.27		1.78		4.51		4.19
42	STACKS: - TOTAL NO.	42		2		5		3		1		7
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43		250.00	138.00	250.00		150.00		306.00	136.00	155.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44										
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45		19.10		56.00		28.50		42.00		.04
46	SOLD (1,000 TONS) 11/	46				10.00		3.00				.04
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47										
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48										
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49										
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50		187.00		416.00		45.00				
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51								367.00		
52	COMBINATION PRECIPITATORS ($1,000) 4/	52										
53	DESULFURIZATION SYSTEMS ($1,000)	53										
54	STACKS ($1,000)	54		306.00		336.00		108.00		212.00		110.00
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55		29.60		64.00		29.50		33.00		19.20
56	REVENUES FROM SALE OF ASH ($1,000)	56						.20				15.60
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57										
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58										
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	59		29.60		64.00		29.50		33.00		19.20
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60						.20				15.60
	WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE (CODES R, L, R, C, W, M & O EXPL. IN FOOTNOTES)	61	R	MISSOURI	R	OES MOINES	R	OES MOINES	R	MISSISSIPPI	R	ST. JOHN'S
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		164.30		265.00		.81		163.87		345.00
63	AVERAGE RATE OF DISCHARGE (CFS)	63		163.70		265.00				163.95		345.00
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	1.41	.60				.81	1.41	.02	2.97	
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	65	JUL	DEC	AUG	DEC			SEP	MAR	AUG	DEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	85.00	42.00	93.00	53.00			79.50	44.00	89.00	62.00
67	AT OUTFALL, SUMMER - WINTER	67	101.00	62.00					101.50	63.00	102.00	70.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		40,240.00		2,336.00				70,000.00		109,000.00
69	- WINTER	69		23,240.00						75,000.00		109,000.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CI 16/	70										
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		.15		2.50		.05		.10		.85
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		.50		18.12		23.50				
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73		60.00			190.00	10.00				
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74					33.50	1.50				
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75			30.00		5.50		7.11		90.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	76		YES		YES	YES	YES		YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	77	SW		ST		ST		ST		SW	
78	RECEIVING WATER BODY	78	R	MISSOURI			O	ASH SETTL POND	R	MISSISSIPPI		
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	79		10.50 8.70		10.50 9.10		10.40		7.80		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80				3.00 .30		10.00		12.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81		200.00		1,400.00						
82	- ASH SETTLING	82				217,000.00		46,000.00		51,000.00		
	COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	83	2	130.60					1	212.00		
84	ONCE THROUGH COOLING (SALINE)	84									7	339.90
85	COOLING PONDS(S)	85										
86	COOLING TOWER(S)	86					3	71.00				
87	COMBINATIONS 21/	87			7	324.60						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1954	1958	1925	1964	1953	1957		1967	1955	1961
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	89	15.70	17.40	12.00	18.00		17.50		22.00	15.00	18.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		173.40		656.00		124.00		180.00		326.60
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		180.50		656.00				180.00		345.00
	CAPITAL COSTS OF COOLING FACILITIES											
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92		1,311.00		825.00				1,153.00		410.00
93	COOLING PONDS ($1,000)	93										
94	COOLING TOWERS ($1,000)	94				1,209.00		1.32				
	ANNUAL COOLING WATER EXPENSES											
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95				135.00		62.60		23.50		38.00
96	COST OF CHEMICAL ADDITIVES ($1,000)	96				4.90		11.00		1.10		6.00
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		11.40		30.00		22.60		2.60		57.00
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		6.00		12.00		5.30		1.00		1.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	JACKSONVILLE ELECTRIC LIGHT PLT.	JACKSONVILLE ELECTRIC LIGHT PLT.	JERSEY CENTRAL POWER & LIGHT CO.	JERSEY CENTRAL POWER & LIGHT CO.	JERSEY CENTRAL POWER & LIGHT CO.		
NAME OF PLANT	NORTHSIDE	SOUTHSIDE	WERNER	SAYREVILLE	OYSTER CREEK NUC		
UTILITY-PLANT CODE	234500-0200	234500-0300	23T000-0100	237000-0200	23T000-0800		
STATE	FLORIDA	FLORIDA	NEW JERSEY	NEW JERSEY	NEW JERSEY		
COUNTY	DUVAL	DUVAL	MIDDLESEX	MIDDLESEX	OCEAN		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	049 03	049 03	043 02	043 02	150 02		
PLANT CAPACITY (MW)	29T.50	356.60	116.25	346.T5	560.00		
ANNUAL GENERATION (MWH) [3]	1,231,300	1,524,900	592,T0C	2,214,700	3,454,200		
PLANT HEAT RATE (BTU/KWH) [3]	9,75T	10,803	13,092	11,290			

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)					10.00		
AVERAGE HEAT CONTENT (BTU/LB)					13,500		
AVERAGE SULFUR CONTENT (%)					2.50		
AVERAGE ASH CONTENT (%)					9.00		
AVERAGE MOISTURE CONTENT (%)							
OIL: CONSUMPTION (1,000 BARRELS)	1,922.00	2,891.T6	1,263.00	3,322.00			
AVERAGE HEAT CONTENT (BTU/GAL)	149,560	149,44T	146,282	146,291			
AVERAGE SULFUR CONTENT (%)	1.15	1.14	.80	.TT			
GAS: CONSUMPTION (1,000 MCF)				4,250.00			
AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,019			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	5	4	6			
- NO. OF WET BOTTOM				4			
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS				2			
- NO. WITH ELECTROSTATIC PRECIPITATORS			1	2			
- NO. WITH COMBINATION PRECIPITATORS [4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	8.00	10.00	10.00 22.00	10.00 20.00			
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				86.20			
TESTED, LOW - HIGH				88.40 89.30			
ESTIMATED, LOW - HIGH				88.00 89.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH			85.00	90.00			
TESTED, LOW - HIGH			86.TO	90.80 95.30			
EST., LOW - HIGH							
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.32	.50	.11	.11			
SULFUR DIOXIDE (1,000 TONS)	7.42	11.29	3.39	9.07			
NITROGEN OXIDES (1,000 TONS)	4.24	6,51	2,T8	8.35			
STACKS: - TOTAL NO.	1	6	4	5			
- HEIGHT (FEET), LOWEST - HIGHEST [8]	250.00	133.50 145.00	124.00 210.00	138.00 221.00			
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
TOTAL ASH: COLLECTED (1,000 TONS) [10]	.05	.14		.50			
SOLD (1,000 TONS) [11]	.05						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				112.00			
ELECTROSTATIC PRECIPITATORS ($1,000)			212.00	604.00			
COMBINATION PRECIPITATORS ($1,000) [4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	175.00	164.00	60.50	134.90			
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	9.30	21.60		2.00			
REVENUES FROM SALE OF ASH ($1,000)	52.00	63.00					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	9.30	21.60		2.00			
TOTAL BYPRODUCT SALES REVENUES ($1,000)	52.00	63.00					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ST. JOHN'S	R ST. JOHN'S	R RARITAN	R RARITAN	B BARNEGAT		
AVERAGE RATE OF WITHDRAWAL (CFS)	300.00	476.00	193.00	430.00	1,094.00		
AVERAGE RATE OF DISCHARGE (CFS)	300.00	476.00	193.00	430.00	1,094.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	2.58	4.09	1.66	3.70	9.41		
PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG DEC	SEP DEC	SER DEC	SEP DEC	JUN DEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 62.00	88.00 55.00	76.70 50.50	79.70 49.70	85.00		
AT OUTFALL, SUMMER - WINTER	102.00 81.00	98.00 67.00	86.40 58.50	92.10 64.60	95.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	323.00	92,000.00					
- WINTER	323.00	92,000.00					
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]					H		
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		1,00	18.00	4.50			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	238.00		30.54	112.50	30.64		
LIME (TONS), COOLING WATER - BOILER MAKEUP	50.00		12.00				
ALUM (TONS), COOLING WATER - BOILER MAKEUP	3.50		3.00				
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	60.00	120.00	56.00	75.00	379.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	SW/PS	ST	ST	OT		
RECEIVING WATER BODY	C SAN CARLOS				O OYSTER CR./BAY		
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING				6.70			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				203.00			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
- ASH SETTLING				149,600.00			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)							
ONCE THROUGH COOLING (SALINE)	1 280.00	5 356.60	3 116.26	5 346.T5	1 550.00		
COOLING POND(S)							
COOLING TOWER(S)							
COMBINATION [21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1966	1950 1964	1930 1953	1930 1958	1969		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	10.00	10.50 18.00	T.00 10.50	13.60 16.20	19.87		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	323.00	551.TO	343.10	509.78	1,002.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)	323.00	544.80	348.26	510.00	2,765.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	2,230.00	79T.00	625.00	1,368.00	8,118.00		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	35.00	63.10	26.90	54.00	52.10		
COST OF CHEMICAL ADDITIVES ($1,000)	8.00	7.90	.70	10.00	39.70		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	1T.00	83.70	29.70	52.00	13.00		
COST OF CHEMICAL ADDITIVES ($1,000)	28.00	4.10	5.90	31.00			

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	KANSAS CITY POWER & LIGHT CO.		KANSAS CITY POWER & LIGHT CO.		KANSAS CITY POWER & LIGHT CO.		KANSAS CITY POWER & LIGHT CO.		KANSAS CITY BOARD OF PUBLIC UTILS.	1
2		2										2
3		3										3
4	NAME OF PLANT	4	GRAND AVE		HAWTHORNE		MONTROSE		NORTHEAST		KAW	4
5	UTILITY-PLANT CODE	5	241500-0100		241500-0200		241500-0300		241500-0400		242000-0100	5
6	STATE	6	MISSOURI		MISSOURI		MISSOURI		MISSOURI		KANSAS	6
7	COUNTY	7	JACKSON		JACKSON		HENRY		JACKSON		WYANDOTTE	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	094	10	094	10	139	10	094	10	094	10	8
9	PLANT CAPACITY (MW)	9		126.75		908.09		563.10		133.00		161.28	9
10	ANNUAL GENERATION (MWH) [3]	10		147,900		3,166,200		3,348,500		92,100		726,700	10
11	PLANT HEAT RATE (BTU/KWH) [3]	11		14,519		11,205		10,448		17,471		11,715	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12		86.00		731.00		1,839.00				57.11	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13		12,280		11,123		9,499				11,060	13
14	AVERAGE SULFUR CONTENT (%)	14		2.95		2.56		6.26				3.50	14
15	AVERAGE ASH CONTENT (%)	15		10.12		10.55		23.96				14.26	15
16	AVERAGE MOISTURE CONTENT (%)	16		8.27		12.54		9.76				10.11	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17		10.10				8.50		.60			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		138,485				137,798		138,100			18
19	AVERAGE SULFUR CONTENT (%)	19		.60				.60		.60			19
20	GAS: CONSUMPTION (1,000 MCF)	20		2,598.00		20,421.00				1,682.00		7,393.47	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		958		956				953		981	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22		4		5		3		8		3	22
23	- NO. OF WET BOTTOM	23										3	23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25				4						2	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				1		3				1	26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27		3									27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	10.00	12.50		20.00		20.00		20.00	16.00	25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30				85.00						85.00	30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32				85.00							32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33		99.40		99.00		95.00				97.00	33
34	TESTED, LOW - HIGH	34											34
35	EST., LOW - HIGH	35		99.00		99.00		95.00				99.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39		.08		4.22		18.73				.60	39
40	SULFUR OIDXIDE (1,000 TONS)	40		4.99		36.68		225.66				3.92	40
41	NITROGEN OXIDES (1,000 TONS)	41		1.30		10.56		16.57		.33		2.47	41
42	STACKS: - TOTAL NO.	42		3		3		2		5		3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	114.00	240.00	200.00	600.00		450.00	150.00	159.00	204.50	208.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45		9.00		72.00		422.00				7.82	45
46	SOLD (1,000 TONS) [11]	46						72.00					46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50				324.00						120.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51				1,294.00		1,285.00				247.00	51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52		361.20									52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54		128.00		1,014.00		457.00		33.00		196.62	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55		55.00		616.00		384.00				79.00	55
56	REVENUES FROM SALE OF ASH ($1,000)	56						85.00					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000:	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59		62.00		635.00		446.00				79.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60						85.00					60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R MISSOURI		R MISSOURI		C DEEPWATER		R MISSOURI		R KAW		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		53.00		785.00		575.00		52.00		137.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63		53.00		785.00		575.00		52.00		137.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	.46		6.75				.45		1.18		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	AUG	DEC	AUG	DEC	AUG	DEC	AUG	DEC	JUL	DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	86.00	42.00	82.00	38.00	93.00	61.00	83.00	42.00	85.00	40.00	66
67	AT OUTFALL, SUMMER - WINTER	67	100.00	62.00	94.00	64.00	109.00	88.00	94.00		100.00	55.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		48,690.00		48,690.00				48,690.00		12,500.00	68
69	- WINTER	69		35,290.00		35,290.00				35,290.00		1,450.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71				1.25		3.00		3.50			71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72				328.54		518.90				21.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						23.75					73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75						34.63			52.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76		YES		YES		YES		YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [16]	77	PS		ST		OT		PS		PS		77
78	RECEIVING WATER BODY	78											78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79									10.50	5.00	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80									400.00	2,000.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81										133.00	81
82	- ASH SETTLING	82										5,200.00	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [17]: ONCE THROUGH COOLING (FRESH)	83	5	126.70	5	908.09			6	103.00	3	161.28	83
84	ONCE THROUGH COOLING (SALINE)	84											84
85	COOLING PONDS(S)	85					3	563.10					85
86	COOLING TOWERS)	86											86
87	COMBINATION [21]	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1929	1949	1951	1969	1958	1964	1919	1940	1955	1962	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89						15.80			13.76	15.85	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90						765.00				273.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		501.00						443.00		273.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92		1,063.00		5,155.00				955.00		932.00	92
93	COOLING PONDS ($1,000)	93						1,237.00					93
94	COOLING TOWERS ($1,000)	94											94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95				19.00		15.00				66.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96										8.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		22.00		48.00		125.00		23.00		15.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98				92.00						3.30	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	KANSAS CITY BOARD OF PUBLIC UTILS.		KANSAS CITY BOARD OF PUBLIC UTILS.		KANSAS GAS & ELECTRIC CO.		KANSAS GAS & ELECTRIC CO.		KANSAS GAS & ELECTRIC CO.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	QUINDARO #2		QUINDARO #3		EVANS		GILL		NEOSHO		4
5	UTILITY-PLANT CODE	5	242000-0200		242000-0300		242500-0100		242500-0200		242500-0300		5
6	STATE	6	KANSAS		KANSAS		KANSAS		KANSAS		KANSAS		6
7	COUNTY	7	WYANDOTTE		WYANDOTTE		SEDGWICK		SEDGWICK		LABETTE		7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	094 10		094 10		099 11		099 11		098 11		8
9	PLANT CAPACITY (MW)	9	104.50		81.60		539.30		348.30		113.50		9
10	ANNUAL GENERATION (MWH) 3/	10	281,600		386,600		3,406,400		1,860,000		273,300		10
11	PLANT HEAT RATE (BTU/KWH) 3/	11	16,625		12,912		9,810		10,707		12,047		11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12	30.07		101.50						.09		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,295		12,181						12,762		13
14	AVERAGE SULFUR CONTENT (%)	14	3.50		3.50								14
15	AVERAGE ASH CONTENT (%)	15	12.26		12.56						12.00		15
16	AVERAGE MOISTURE CONTENT (%)	16	6.02		6.33						6.50		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17					17.10		12.00		11.90		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18					147,708		147,530		150,392		18
19	AVERAGE SULFUR CONTENT (%)	19											19
20	GAS: CONSUMPTION (1,000 MCF)	20	4,199.91		2,667.08		33,589.70		19,127.70		3,126.80		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	939		940		992		1,037		1,028		21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	6		1		2		4		7		22
23	- NO. OF WET BOTTOM	23	6		1								23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	2										25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26			1								26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27											27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%, LOWEST BOILER - HIGHEST BOILER 5/	29	25.00	41.00	16.00		8.00		8.00	15.00	10.00	35.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30		85.00									30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32		85.00									32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	33			97.00								33
34	TESTED, LOW - HIGH	34			98.82								34
35	EST., LOW - HIGH	35			97.00								35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	39	.61		.04						.01		39
40	SULFUR DIOXIDE (1,000 TONS)	40	2.06		6.96								40
41	NITROGEN OXIDES (1,000 TONS)	41	1.27		3.31		6.59		3.76		.64		41
42	STACKS: - TOTAL NO.	42	5		1		3		5		3		42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	155.00		350.00		198.00	144.00	150.00	155.00	202.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	3.74		12.96						.02		45
46	SOLD (1,000 TONS) 11/	46											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50	100.00										50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51			245.00								51
52	COMBINATION PRECIPITATORS ($1,000) 4/	52											52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	132.00		174.00		80.80		123.00		107.10		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	37.50		129.50						.10		55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	59	37.50		129.50						.10		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60											60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R MISSOURI		R MISSOURI		W		W		R NEOSHO		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	68.00		91.00		7.67		6.74		1.61		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	19.00		91.00		1.63		1.89		.32		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	.58	49.00	.78		6.04		4.85		1.29		64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	65	JUL	DEC	JUL	DEC	AUG	JAN	AUG	JAN	AUG	JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	85.00	40.00	85.00	40.00							66
67	AT OUTFALL, SUMMER - WINTER	67	100.00	55.00	100.00	55.00							67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		40,000.00		40,000.00						120.00	68
69	- WINTER	69		19,000.00		19,000.00						640.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71					24.63	.10	23.95	1.55	5.57	.45	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		150.00		10.50	.75		.45		.43		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73									84.11	14.84	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75					15.00		11.00		11.05		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	76		YES		YES	YES	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	77	PS		PS		ST		ST		ST		77
78	RECEIVING WATER BODY	78											78
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	79	10.50	5.00	10.50	5.00							79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	400.00	2,000.00	400.00	2,000.00							80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81		40.00		65.00							81
82	- ASH SETTLING	82		2,120.00		5,166.00							82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	83	4	101.00	1	81.60							83
84	ONCE THROUGH COOLING (SALINE)	84											84
85	COOLING POND(S)	85									2	40.00	85
86	COOLING TOWER(S)	86					2	539.30	4	348.20	1	73.50	86
87	COMBINATION 21/	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1932	1952		1965	1961	1967	1952	1959	1923	1954	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	89		14.00		14.25	22.24	25.32	14.50	17.40	11.00	16.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		296.00		119.00		469.20		493.30		250.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		296.00		119.00							91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92		870.00		1,797.00							92
93	COOLING PONDS ($1,000)	93										812.00	93
94	COOLING TOWERS ($1,000)	94						2,154.40		2,544.50		253.60	94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95		48.00		33.00		14.70		55.00		13.10	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96						63.70		39.00		8.30	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		15.00		15.00		8.00		29.00		11.80	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		9.30		2.36		12.50		11.60		1.60	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	KANSAS GAS & ELECTRIC CO.	KENTUCKY POWER CO.	KENTUCKY UTILITIES CO.	KENTUCKY UTILITIES CO.	KENTUCKY UTILITIES CO.		1
4	NAME OF PLANT	RIPLEY	BIG SANDY	BROWN	GREEN RIVER	PINEVILLE		4
5	UTILITY-PLANT CODE	242500-0400	245000-0100	245500-0200	245500-0300	245500-0500		5
6	STATE	KANSAS	KENTUCKY	KENTUCKY	KENTUCKY	KENTUCKY		6
7	COUNTY	SEDGWICK	LAWRENCE	MERCER	MUHLENBERG	BELL		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	099 11	103 05	102 05	072 05	101 05		8
9	PLANT CAPACITY (MW)	87.20	1,002.60	293.00	264.00	37.50		9
10	ANNUAL GENERATION (MWH) [3]	245,900	5,330,900	1,405,500	1,044,000	136,200		10
11	PLANT HEAT RATE (BTU/KWH) [3]	13,678	9,234	10,516	11,621	13,996		11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		2,155.00	623.26	535.56	80.84		12
13	AVERAGE HEAT CONTENT (BTU/LB)		11,271	11,541	11,327	11,523		13
14	AVERAGE SULFUR CONTENT (%)		1.00	2.44	2.83	1.78		14
15	AVERAGE ASH CONTENT (%)		14.27	14.52	11.04	16.95		15
16	AVERAGE MOISTURE CONTENT (%)		8.25	6.60	10.19	4.81		16
17	OIL: CONSUMPTION (1,000 BARRELS)	11.60						17
18	AVERAGE HEAT CONTENT (BTU/GAL)	145,000						18
19	AVERAGE SULFUR CONTENT (%)							19
20	GAS: CONSUMPTION (1,000 MCF)	3,162.80						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,041						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	5	2	2	5	1		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS			2	5	1		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2					26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00 12.00	20.00	20.00 25.00	25.00	25.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			80.60	80.00 84.60	81.70		30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH			80.00	80.00	81.70		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		98.50					33
34	TESTED, LOW - HIGH							34
35	EST., LOW - HIGH		79.00 98.00					35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)		20.75	15.38	10.05	2.13		39
40	SULFUR DIOXIDE (1,000 TONS)		42.24	29.81	29.71	2.82		40
41	NITROGEN OXIDES (1,000 TONS)	.64	19.40	5.61	4.82	.73		41
42	STACKS: - TOTAL NO.	3	1	2	3	1		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	150.00	825.00	345.00	125.00 247.00	135.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]		297.00	83.40	48.09	11.86		45
46	SOLD (1,000 TONS) [11]							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			140.70	229.25	19.96		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		3,094.00					51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	98.80	2,521.00	307.10	141.11	11.85		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		72.70	3.60	60.40	4.60		55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		72.70	3.60	60.40	4.60		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	R BIG SANDY	L HERRINGTON	R GREEN	R CUMBERLAND		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	3.00	29.19		276.20			62
63	AVERAGE RATE OF DISCHARGE (CFS)	1.90	20.06		275.10			63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.10	9.13		2.38 .10			64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG JAN	AUG DEC	JUL JAN	JUL DEC			65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		87.00 45.00		93.00 55.00			66
67	AT OUTFALL, SUMMER - WINTER		87.00 45.00		118.00 80.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		4,228.00		2,163.00			68
69	- WINTER		4,228.00		13,990.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D [16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	19.63 .80		.10	1.20	.03		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.35		50.00	95.59	5.06		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		12.00	5.00	27.31 1.44			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			11.00	62.95 3.31	4.00		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	6.00	12.00 .45	.60	6.00			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES YES	YES	YES YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	OT	ST	OT	OT		77
78	RECEIVING WATER BODY		R BIG SANDY			R CUMBERLAND		78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING				10.80 10.50	10.30 7.40		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				1.20 4.00			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				245.00	2.00		81
82	- ASH SETTLING				130,000.00	3,161.60		82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [25]: ONCE THROUGH COOLING (FRESH)				4 263.00			83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING PONDS							85
86	COOLING TOWERS	3 87.20	2 1,096.80	2 256.00		1 37.50		86
87	COMBINATIONS [21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1938 1949	1963 1969	1957 1963	1949 1959	1951		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	12.40 14.00	21.60 26.30	15.00	20.00	16.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	216.40	905.90	329.10	406.90	7.91		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)				406.90			91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)				2,580.69			92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)	664.40	6,114.00	1,273.00		116.72		94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.60	54.00	105.70	24.00	1.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	12.30	16.30		8.90	5.00		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	11.60	3.00	10.00	56.00	6.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	.30	13.80	4.00	15.00	3.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1 NAME OF UTILITY	KENTUCKY UTILITIES CO.	LAKE WORTH LIGHT & WATER DEPT.	LAKELAND LIGHT & WATER DEPT.	LAKELAND LIGHT & WATER DEPT.	LANSING BOARD OF W.E.L. COMM.	
4 NAME OF PLANT	TYRONE	LAKE WORTH	LAKE PARKER	PLANT #3	ECKERT	
5 UTILITY-PLANT CODE	245500-0600	256500-0100	257500-0200	257500-0300	260500-0100	
6 STATE	KENTUCKY	FLORIDA	FLORIDA	FLORIDA	MICHIGAN	
7 COUNTY	WOODFORD	PALM BEACH	POLK	POLK	INGHAM	
8 AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	102 05	050 03	052 03	052 03	125 04	
9 PLANT CAPACITY (MW)	138.00	65.00	120.00	115.00	386.00	
10 ANNUAL GENERATION (MWH) 3/	277,700	163,900	613,009	16,620	1,265,500	
11 PLANT HEAT RATE (BTU/KWH) 3/	12,917	12,726	12,078	12,078	11,070	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	157.40				560.39	
13 AVERAGE HEAT CONTENT (BTU/LB)	11,436				12,210	
14 AVERAGE SULFUR CONTENT (%)	1.23				2.49	
15 AVERAGE ASH CONTENT (%)	13.31				11.83	
16 AVERAGE MOISTURE CONTENT (%)	8.25				4.76	
17 OIL: CONSUMPTION (1,000 BARRELS)		8.83	303.80	34.30		
18 AVERAGE HEAT CONTENT (BTU/GAL)		146,100	156,000	150,000		
19 AVERAGE SULFUR CONTENT (%)		2.06	1.65	1.65		
20 GAS: CONSUMPTION (1,000 MCF)		2,037.50	5,407.70			
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,026	1,025			

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	5	3	4	1	6	
23 - NO. OF WET BOTTOM					6	
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS	5	3				
26 - NO. WITH ELECTROSTATIC PRECIPITATORS					6	
27 - NO. WITH COMBINATION PRECIPITATORS 4/						
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	25.00	10.00	10.00 15.00	8.00	18.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	20.00 84.80	90.00				
31 TESTED, LOW - HIGH						
32 ESTIMATED, LOW - HIGH	81.00					
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH					97.50	
34 TESTED, LOW - HIGH					96.90 98.00	
35 EST., LOW - HIGH					97.50	
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	5.83		.05	.01	1.08	
40 SULFUR DIOXIDE (1,000 TONS)	3.79	.06	1.68	.19	27.35	
41 NITROGEN OXIDES (1,000 TONS)	1.42	.42	1.72	.08	8.41	
42 STACKS: - TOTAL NO.	3	3	4	1	6	
43 - HEIGHT (FEET), LOWEST - HIGHEST 8/	180.00	60.00 100.00	165.00	150.00	334.00 359.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
45 TOTAL ASH: COLLECTED (1,000 TONS) 10/	14.90				68.40	
46 SOLD (1,000 TONS) 11/					2.90	
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	53.00	45.00				
51 ELECTROSTATIC PRECIPITATORS ($1,000)					767.40	
52 COMBINATION PRECIPITATORS ($1,000) 4/						
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	103.80	29.00	113.00	14.00	592.50	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	7.00				110.00	
56 REVENUES FROM SALE OF ASH ($1,000)					3.90	
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	7.00				125.00	
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)					3.90	

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R KENTUCKY	M	L PARKER	L PARKER	R GRAND	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	73.00		390.00	176.00	158.00	
63 AVERAGE RATE OF DISCHARGE (CFS)	73.00		390.00	176.00	157.70	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.63		3.35	1.51	.30	
65 PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL JAN	SEP JAN	AUG JAN	NOV	AUG DEC	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 35.00		89.00 50.00	69.00	79.00 36.00	
67 AT OUTFALL, SUMMER - WINTER	97.00 46.00		100.00 59.00	71.00	87.00 50.00	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			390.00		347.00	
69 - WINTER			390.00	176.00	674.00	
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/				C		
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.25	.03	.40	.03	.15	
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKUP	155.82	13.00	.30		.23	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP	15.00					
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP	15.00					
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		.50			16.50	
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES YES	YES	YES	YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	SW	PS	ST	ST	PS	
78 RECEIVING WATER BODY	R KENTUCKY					
79 POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	10.00 7.80	9.50	10.70	10.70	11.00	
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00	300.00	5.00	10.00	30.00	
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	50.00	420.00	83.42	10.00	1,796.40	
82 - ASH SETTLING	2,300.00					

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	3 135.00		4 120.00	1 115.00		
84 ONCE THROUGH COOLING (SALINE)						
85 COOLING POND(S)						
86 COOLING TOWER(S)		3 41.50			6 381.00	
87 COMBINATION 21/						
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1947 1953	1961 1967	1950 1966	1970	1954 1970	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	12.00 18.00	14.50 17.20	6.00 8.20	11.40	16.30 23.00	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	256.10	89.40	406.00	176.00	450.60	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	256.10		406.00	176.00	450.00	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)			149.00	440.00	1,050.00	
93 COOLING PONDS ($1,000)					1,100.00	
94 COOLING TOWERS ($1,000)		520.00			1,015.00	

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)		2.50	47.00	3.50	25.00	
96 COST OF CHEMICAL ADDITIVES ($1,000)		9.30			2.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)			4.00	1.00	7.00	
98 COST OF CHEMICAL ADDITIVES ($1,000)	15.00		2.10	.30	.70	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	LANSING BOARD OF W.E.L. COMM.	LONG ISLAND LIGHTING CO.	LONG ISLAND LIGHTING CO.	LONG ISLAND LIGHTING CO.	LONG ISLAND LIGHTING CO.		
NAME OF PLANT	OTTAWA	BARRETT	FAR ROCKAWAY	GLENWOOD	NORTHPORT		
UTILITY-PLANT CODE	260500-0400	273000-0100	273000-0300	273000-3400	273000-0600		
STATE	MICHIGAN	NEW YORK	NEW YORK	NEW YORK	NEW YORK		
COUNTY	INGHAM	NASSAU	QUEENS	NASSAU	SUFFOLK		
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	125 04	043 02	043 02	043 01	043 01		
PLANT CAPACITY (MW)	81.50	375.00	113.64	380.27	774.18		
ANNUAL GENERATION (MWH) 3/	221,800	1,833,400	468,000	1,228,100	4,923,900		
PLANT HEAT RATE (BTU/KWH) 3/	12,039	10,343	10,967	11,913	9,744		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	117.17					
AVERAGE HEAT CONTENT (BTU/LB)	12,261					
AVERAGE SULFUR CONTENT (%)	2.21					
AVERAGE ASH CONTENT (%)	11.33					
AVERAGE MOISTURE CONTENT (%)	4.93					
OIL: CONSUMPTION (1,000 BARRELS)		2,314.00	713.00	1,801.00	7,574.00	
AVERAGE HEAT CONTENT (BTU/GAL)		146,704	146,171	146,949	149,765	
AVERAGE SULFUR CONTENT (%)		1.02	.90	.89	2.48	
GAS: CONSUMPTION (1,000 MCF)		4,559.00	729.00	3,379.00		
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,033	1,033	1,033		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	2	1	8	2	
- NO. OF WET BOTTOM	5					
- NO. WITH FLY ASH REINJECTION		1			2	
- NO. WITH MECHANICAL PRECIPITATORS		1		2	2	
- NO. WITH ELECTROSTATIC PRECIPITATORS	5			2		
- NO. WITH COMBINATION PRECIPITATORS 4/		1	1	4		
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	18.00	25.00	12.00	12.00 15.00	6.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					85.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	97.50	95.00				
TESTED, LOW - HIGH						
EST., LOW - HIGH	97.50	25.00	25.00	25.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.22	.34	.09	.24	.19	
SULFUR DIOXIDE (1,000 TONS)	5.08	7.92	2.15	5.40	63.02	
NITROGEN OXIDES (1,000 TONS)	1.76	6.00	1.71	4.64	16.70	
STACKS: - TOTAL NO.	1	2	1	8	2	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	293.00	250.00 350.00	265.50	246.50 265.00	600.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/		2.00		.01	7.60	
TOTAL ASH: COLLECTED (1,000 TONS) 10/	13.70		.09	.08	.44	
SOLD (1,000 TONS) 11/	3.90		.02		.44	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		808.00		265.00	2,322.00	
ELECTROSTATIC PRECIPITATORS ($1,000)	361.80					
COMBINATION PRECIPITATORS ($1,000) 4/		838.00	629.00	1,322.00		
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	174.30	465.00	125.00	301.00	1,859.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	34.00		1.72	120.00		
REVENUES FROM SALE OF ASH ($1,000)	5.80		3.00		.44	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	37.00			1.72	120.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)	5.80		3.00		.44	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R GRAND	O HOG IS CHANNEL	O MOTT BASIN	O LONG IS SOUND	O LONG IS SOUND	
AVERAGE RATE OF WITHDRAWAL (CFS)	49.50	412.00	127.00	368.00	660.00	
AVERAGE RATE OF DISCHARGE (CFS)	49.50	412.00	127.00	368.00	660.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.43	3.54	1.09	3.16	5.68	
PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC					
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	83.00 49.00					
AT OUTFALL, SUMMER - WINTER	96.00 57.00					
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	607.00					
- WINTER	1,180.00					
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		1.55	.19	6.00	.38	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.09	.40		4.05	175.00	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	12.00	32.00	24.00			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	RS	PS	PS	ST	ST	
RECEIVING WATER BODY				H HEMPSTEAD		
POND DISCHARGE: PH, 19/ BOILER BLOWDOWN - ASH SETTLING	11.00					
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	30.00					
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	555.74					
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	5 81.50					
ONCE THROUGH COOLING (SALINE)		2 375.00	1 113.64	4 350.00	2 750.00	
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1938 1947	1956 1963	1952	1930 1954	1967 1968	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	14.30		20.00	15.00 16.50	22.60	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	150.30	434.00	127.00	590.00	659.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	174.00	434.00	127.00	228.00	659.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	82.00	2,349.00	486.00	1,412.00	2,846.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.00	7.00		139.00	65.00	
COST OF CHEMICAL ADDITIVES ($1,000)	1.40	2.50		14.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	30.00	11.00		32.00	259.00	
COST OF CHEMICAL ADDITIVES ($1,000)	.20	.40		2.70	11.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	LONG ISLAND LIGHTING CO.	LOS ANGELES DEPT. OF WATER & POWER	LOS ANGELES DEPT. OF WATER & POWER	LOS ANGELES DEPT. OF WATER & POWER	LOS ANGELES DEPT. OF WATER & POWER		
NAME OF PLANT	PORT JEFFERSON	HARBOR	HAYNES	SCATTERGOOD	VALLEY		
UTILITY-PLANT CODE	273000-0700	274500-0700	274500-0800	274500-1200	274500-1600		
STATE	NEW YORK	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA		
COUNTY	SUFFOLK	LOS ANGELES	LOS ANGELES	LOS ANGELES	LOS ANGELES		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	043 01	024 18	024 18	024 18	024 18		
PLANT CAPACITY (MW)	467.00	388.90	1,606.00	326.40	545.60		
ANNUAL GENERATION (MWH) [3]	2,401,800	452,900	8,962,754	1,874,769	1,947,500		
PLANT HEAT RATE (BTU/KWH) [3]	10,474	13,414	9,381	9,959	10,663		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)							
AVERAGE HEAT CONTENT (BTU/LB)							
AVERAGE SULFUR CONTENT (%)							
AVERAGE ASH CONTENT (%)							
AVERAGE MOISTURE CONTENT (%)							
OIL: CONSUMPTION (1,000 BARRELS)	4,021.00	359.30	2,611.10	839.80	484.50		
AVERAGE HEAT CONTENT (BTU/GAL)	148,885	150,535	150,940	144,951	150,136		
AVERAGE SULFUR CONTENT (%)	2.40	.31	.41	.33	.41		
GAS: CONSUMPTION (1,000 MCF)		4,497.70	63,264.40	12,781.50	16,500.20		
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,066	1,070	1,034	1,057		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	5	6	2	4		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION	2						
- NO. WITH MECHANICAL PRECIPITATORS				2	4		
- NO. WITH ELECTROSTATIC PRECIPITATORS							
- NO. WITH COMBINATION PRECIPITATORS [4]	4						
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	25.00 26.00	6.87 10.00	7.00 10.00	15.00	15.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				27.50	27.50		
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH				92.00	84.00 90.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
EST., LOW - HIGH	25.00 50.00						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.36	.06	.44	.01	.01		
SULFUR DIOXIDE (1,000 TONS)	32.38	.37	3.60	.93	.72		
NITROGEN OXIDES (1,000 TONS)	8.87	1.67	18.23	4.30	4.38		
STACKS: - TOTAL NO.	3	5	8	1	4		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	300.00 425.00	247.00	240.00	300.00	250.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	.50						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	2.99				.01		
SOLD (1,000 TONS) [11]	.19						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				155.00	434.00		
ELECTROSTATIC PRECIPITATORS ($1,000)							
COMBINATION PRECIPITATORS ($1,000) [4]	2,882.00						
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	1,141.00	450.00	850.00	384.00	612.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	38.00		4.00	1.60	1.00		
REVENUES FROM SALE OF ASH ($1,000)	54.00						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	38.00		4.00	1.60	1.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)	54.00						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	H PORT JEFF.	O PACIFIC OCEAN	O PACIFIC OCEAN	O PACIFIC OCEAN	M		
AVERAGE RATE OF WITHDRAWAL (CFS)	600.00	423.00	.98	340.00			
AVERAGE RATE OF DISCHARGE (CFS)	600.00	423.00	.98	340.00			
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	5.16	3.64	.01	2.92			
PEAK LOAD MONTH : SUMMER - WINTER [15]		AUG DEC	AUG OEC	AUG OEC			
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		63.00 60.00	72.00 62.00	73.00 63.00			
AT OUTFALL, SUMMER - WINTER		73.00 70.00	97.00 86.20	92.00 79.00			
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		423.00	19.20	355.00			
- WINTER		423.00	30.10	355.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.42	.26		.17	11.19 .79		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.24			.18	23.01		
LIME (TONS), COOLING WATER - BOILER MAKEUP							
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	40.00	39.00	68.50	29.81	21.36		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES YES	YES YES	YES	YES YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	PS	ST	PS	PS		
RECEIVING WATER BODY	H PORT JEFF.		O PACIFIC OCEAN				
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	9.00						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	50.00						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	840.00						
- ASH SETTLING							

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)							
ONCE THROUGH COOLING (SALINE)	4 460.00	5 388.90	6 1,606.00	2 326.40			
COOLING PONDS							
COOLING TOWERS					4 545.60		
COMBINATIONS [21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948 1960	1943 1949	1962 1967	1958 1959	1954 1956		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	12.00	18.90 20.20	17.40 19.40	17.80	13.25 20.70		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	632.38	592.00	1,398.00	348.00	626.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	632.38	616.00	1,570.00	348.00			

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	3,315.00	3,857.00	7,733.00	7,139.00			
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)					7,124.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	65.00	400.00	122.00	30.00	94.00		
COST OF CHEMICAL ADDITIVES ($1,000)	6.00	4.54	6.60	3.00	20.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	97.00	72.00	85.00	12.00	74.00		
COST OF CHEMICAL ADDITIVES ($1,000)	1.00	1.79	17.30	1.60	6.10		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	LOUISIANA POWER & LIGHT CO.	LOUISIANA POWER & LIGHT CO.	LOUISIANA POWER & LIGHT CO.	LOUISVILLE GAS & ELECTRIC CO.	LOUISVILLE GAS & ELECTRIC CO.	1
2							2
3							3
4	NAME OF PLANT	LITTLE GYPSY	NINE MILE	STERLINGTON	CANAL	CANE RUN	4
5	UTILITY-PLANT CODE	275000-0100	275000-0200	275000-0300	275500-0100	275500-0200	5
6	STATE	LOUISIANA	LOUISIANA	LOUISIANA	KENTUCKY	KENTUCKY	6
7	COUNTY	SAINT CHARLES	JEFFERSON	OUACHITA	JEFFERSON	JEFFERSON	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	106 08	106 08	019 08	078 05	078 05	8
9	PLANT CAPACITY (MW)	1,250.78	351.34	351.53	50.00	1,017.00	9
10	ANNUAL GENERATION (MWH) 3/	6,563,800	1,898,000	1,198,800	12,970	5,113,000	10
11	PLANT HEAT RATE (BTU/KWH) 3/	9,817	10,981	10,623	14,142	10,058	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)					2,035.80	12
13	AVERAGE HEAT CONTENT (BTU/LB)					11,355	13
14	AVERAGE SULFUR CONTENT (%)					3.39	14
15	AVERAGE ASH CONTENT (%)					11.91	15
16	AVERAGE MOISTURE CONTENT (%)					8.87	16
17	OIL: CONSUMPTION (1,000 BARRELS)						17
18	AVERAGE HEAT CONTENT (BTU/GAL)						18
19	AVERAGE SULFUR CONTENT (%)						19
20	GAS: CONSUMPTION (1,000 MCF)	60,911.91	19,726.30	12,770.98	183.00	5,120.40	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,059	1,055	995	1,035	1,035	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	3	3	6	2	6	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				2	6	26
27	- NO. WITH COMBINATION PRECIPITATORS 4/						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	8.00	9.00 15.00	8.GG	25.00	21.00 25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH				90.00 96.00	97.50 99.40	33
34	TESTED, LOW - HIGH					97.50 99.50	34
35	EST., LOW - HIGH					98.00 99.50	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)					2.30	39
40	SULFUR OIOXIDE (1,000 TONS)					135.27	40
41	NITROGEN OXIDES (1,000 TONS)	II.88	3.81	2.50	.04	19.32	41
42	STACKS: - TOTAL NO.	5	6	4	1	6	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	161.50 182.00	170.00	125.00 250.00	211.70	257.00 518.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/					238.30	45
46	SOLD (1,000 TONS) 11/					25.80	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)				122.00	3,003.00	51
52	COMBINATION PRECIPITATORS ($1,000) 4/						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	561.00	114.00	121.00	29.00	1,213.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					289.80	55
56	REVENUES FROM SALE OF ASH ($1,000)					31.90	56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/					289.80	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					31.90	60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	R MISSISSIPPI	R OUACHITA	R OHIO	R OHIO	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,393.00	426.00	567.00	4.24	685.70	62
63	AVERAGE RATE OF DISCHARGE (CFS)	1,393.00	426.00	567.00	4.24	685.70	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	11.98 .05	3.66	4.88 .04	.04	5.90	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG OCT	AUG OCT	AUG OCT	AUG	JUL OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 80.00	85.00 81.00	93.00 84.00	84.00	86.00 37.00	66
67	AT OUTFALL, SUMMER - WINTER	110.00 99.00	110.00 107.00	112.00 99.00	93.00	100.00 67.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	228,500.00	228,500.00	1,550.00		37,000.00	68
69	- WINTER	339,500.00	339,500.00	2,570.00		163,000.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.00	3.20	.18	.01	2.32	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	479.11	72.00	3.00		.32	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	4.50		5.00			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.85	2.70	1.26	2.25	262.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	ST	ST	PS		77
78	RECEIVING WATER BODY 19/	R MISSISSIPPI					78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING				9.00	10.00 11.00	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				10.00	10.00 102.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				2.00	110.00	81
82	- ASH SETTLING					355,000.00	82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	3 1,250.78	3 351.34	4 351.53	2 50.00	6 1,016.69	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS(S)						85
86	COOLING TOWER(S)						86
87	COMBINATION 21/						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1961 1969	1951 1955	1928 1958	1937 1941	1954 1969	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	19.00 25.00	16.90 20.60	13.00 17.00	10.00 12.00	13.00 16.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,445.00	426.00	544.00	214.50	1,253.70	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,445.00	430.00	566.00	214.50	1,253.70	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	4,989.00	2,256.00	1,176.00	155.00	8,094.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)				9.70	156.10	95
96	COST OF CHEMICAL ADDITIVES ($1,000)			.87	.40	29.60	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)				.70	187.80	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	50.70	11.20	4.69	.50	40.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	LOUISVILLE GAS & ELECTRIC CO.		LOWER COLORADO RIVER AUTH.		LOWER COLORADO RIVER AUTH.		LUBBOCK, CITY OF		LUBBOCK, CITY OF		1
2		2											2
3		3											3
4	NAME OF PLANT	4	PADDYS RUN		COMAL		GLOEON		HOLLY AVE		PLANT NO. 2		4
5	UTILITY-PLANT CODE	5	275500-0400		277000-0300		277000-0800		278000-0100		278000-0300		5
6	STATE	6	KENTUCKY		TEXAS		TEXAS		TEXAS		TEXAS		6
7	COUNTY	7	JEFFERSON		COMAL		BASTROP		LUBBOCK		LUBBOCK		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	078 05		217 12		212 12		211 12		211 12		8
9	PLANT CAPACITY (MW)	9	337.50		60.00		250.00		50.00		80.50		9
10	ANNUAL GENERATION (MWH) [3]	10	576,300		353,400		1,383,000		206,300		214,600		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	13,681		15,525		9,920		12,758		15,810		11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12	227.00											12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,566											13
14	AVERAGE SULFUR CONTENT (%)	14	3.93											14
15	AVERAGE ASH CONTENT (%)	15	11.50											15
16	AVERAGE MOISTURE CONTENT (%)	16	7.55											16
17	OIL: CONSUMPTION (1,000 BARRELS)	17			21.00		20.30							17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18			145,108		140,510							18
19	AVERAGE SULFUR CONTENT (%)	19			2.00		.10							19
20	GAS: CONSUMPTION (1,000 MCF)	20	3,253.50		5,330.00		13,650.00		2,068.00		3,195.50			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,035		1,037		1,017		1,051		1,047			21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	6		4		2		1		5			22
23	- NO. OF WET BOTTOM	23												23
24	- NO. WITH FLY ASH REINJECTION	24												24
25	- NO. WITH MECHANICAL PRECIPITATORS	25												25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	6											26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27												27
28	- NO. WITH DESULFURIZATION SYSTEMS	28												28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	25.00		18.00		8.00	10.00	10.00		7.00	15.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30												30
31	TESTED, LOW - HIGH	31												31
32	ESTIMATED, LOW - HIGH	32												32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33	96.00	97.50										33
34	TESTED, LOW - HIGH	34	98.10	99.50										34
35	EST., LOW - HIGH	35	96.50	98.00										35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36												36
37	TESTED, LOW - HIGH	37												37
38	ESTIMATED, LOW - HIGH	38												38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39	.51											39
40	SULFUR OIDXIDE (1,000 TONS)	40	17.48		.14		.01							40
41	NITROGEN OXIDES (1,000 TONS)	41	2.68		1.09		2.71		.40		.62			41
42	STACKS: - TOTAL NO.	42	5		2		2		1		5			42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	235.00		186.00		154.00		94.50		45.00	56.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44												44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45	25.00											45
46	SOLD (1,000 TONS) [11]	46	1.00											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47												47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48												48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49												49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50												50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51	990.00											51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52												52
53	DESULFURIZATION SYSTEMS ($1,000)	53												53
54	STACKS ($1,000)	54	203.00		13.00		17.20							54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	159.70											55
56	REVENUES FROM SALE OF ASH ($1,000)	56	1.50											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57												57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58												58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59	159.70											59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60	1.50											60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R OHIO		R COMAL		R COLORADO		M		M			61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	132.50		196.00		3.25		.95		1.21			62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	132.50		195.99				.24		.30			63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	1.14		.01		3.25		.71		.91			64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	JUL	JAN	AUG	NOV	AUG	JAN	AUG	DEC	AUG	DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	81.00	37.00	78.50	76.00	88.00	54.00	69.00	58.00	70.00	58.00		66
67	AT OUTFALL, SUMMER - WINTER	67	93.00	55.00	85.50	81.00	99.00	63.00	93.00	94.00	120.00	97.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		37,000.00		267.00		223.00		1.06		1.48		68
69	- WINTER	69		115,000.00		282.00		278.00		.83		.95		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]	70												70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		2.77		.53		.08	3.25	.06	110.00	.06		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		.78		.45			3.00	.09	.08	.35		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						1.12						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						.18						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	42.00		.03		16.00		.80		3.90			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES		YES		YES		YES	YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	OT		PS		OT		SW		PS			77
78	RECEIVING WATER BODY	78	R OHIO				L BASTROP		O IRRIG. POND					78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	79	10.50	9.30	11.00									79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	10.00	87.30	1.50									80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81		226.00		170.60								81
82	- ASH SETTLING	82		65,862.00										82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83	6	337.50										83
84	ONCE THROUGH COOLING (SALINE)	84												84
85	COOLING POND(S)	85					2	250.00						85
86	COOLING TOWER(S)	86							1	50.00	5	80.50		86
87	COMBINATION [21]	87			2	60.00								87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1942	1952		1956		1964		1965	1949	1958		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89		10.00		15.00	9.97	11.65		14.00		15.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		632.80		200.00		499.00		78.66		190.23		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		632.80		200.00								91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	3,260.00											92
93	COOLING PONDS ($1,000)	93			225.00		3,650.00							93
94	COOLING TOWERS ($1,000)	94			328.00						275.14			94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	94.00				30.00							95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	8.00		3.60		1.82		11.60		26.30			96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	40.00				23.28							97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	10.00		.20		3.17		.20		4.00			98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	MADISON GAS & ELECTRIC CO.	MASSACHUSETTS ELECTRIC CO.	MASSACHUSETTS ELECTRIC CO.	METRO EDISON CO.	METRO EDISON CO.	
4	NAME OF PLANT	BLOUNT	LYNNWAY	WEBSTER	CRAWFORD	EYLER	
5	UTILITY-PLANT CODE	283500-0100	296000-0100	296000-0200	303500-0100	303500-0200	
6	STATE	WISCONSIN	MASSACHUSETTS	MASSACHUSETTS	PENNSYLVANIA	PENNSYLVANIA	
7	COUNTY	DANE	ESSEX	WORCESTER	DAUPHIN	BERKS	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	240 07	119 01	118 01	196 02	151 02	
9	PLANT CAPACITY (MW)	195.50	49.00	34.50	117.00	84.00	
10	ANNUAL GENERATION (MWH) 3/	856,200	261,400	115,600	230,000	178,600	
11	PLANT HEAT RATE (BTU/KWH) 3/	12,333	16,315	13,197	16,406	18,919	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	182.70		55.30	132.00	138.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,560		13,081	13,106	12,008	13
14	AVERAGE SULFUR CONTENT (%)	3.60		.88	1.76	2.24	14
15	AVERAGE ASH CONTENT (%)	10.92		7.16	11.06	15.22	15
16	AVERAGE MOISTURE CONTENT (%)	9.62		7.18	3.89	5.80	16
17	OIL: CONSUMPTION (1,000 BARRELS)	12.10	675.00	11.00	50.80	11.70	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,900	149,147	138,000	143,505	138,316	18
19	AVERAGE SULFUR CONTENT (%)	.28	2.19	.18	.69	.37	19
20	GAS: CONSUMPTION (1,000 MCF)	6,109.80	42.50				20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,015					21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	9	4	1	8	8			22
23	- NO. OF WET BOTTOM	2							23
24	- NO. WITH FLY ASH REINJECTION								24
25	- NO. WITH MECHANICAL PRECIPITATORS	5		1					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				2	2			26
27	- NO. WITH COMBINATION PRECIPITATORS 4/								27
28	- NO. WITH DESULFURIZATION SYSTEMS								28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	10.00 25.00	12.00 25.00	22.00	15.00 26.00	15.00 20.00			29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00		88.30					30
31	TESTED, LOW - HIGH								31
32	ESTIMATED, LOW - HIGH	85.00		84.90					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH				94.00	90.00			33
34	TESTED, LOW - HIGH				85.90 93.52	76.80 78.40			34
35	EST., LOW - HIGH								35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH								36
37	TESTED, LOW - HIGH								37
38	ESTIMATED, LOW - HIGH								38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	2.40	.11	.51	2.96	6.03	39
40	SULFUR DIOXIDE (1,000 TONS)	12.86	4.93	.96	4.67	6.07	40
41	NITROGEN OXIDES (1,000 TONS)	2.97	1.49	.52	1.26	1.22	41
42	STACKS: - TOTAL NO.	2	2	1	3	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	90.00 250.00	174.00	175.00	200.00	242.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	15.10		3.50	11.10	21.30	45
46	SOLD (1,000 TONS) 11/					13.40	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	381.00		40.00			50
51	ELECTROSTATIC PRECIPITATORS ($1,000)				120.00	100.00	51
52	COMBINATION PRECIPITATORS ($1,000) 4/						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	277.00	18.38	34.00	64.00	62.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	65.00		23.30			55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	65.00		34.30			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)				6.30		60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L MONONA		H LYNN		O CURTIS POND		R SUSQUEHANNA		R SCHUYLKILL	
62	AVERAGE RATE OF WITHDRAWAL (CFS)		152.00		110.85		26.00		182.00		81.00
63	AVERAGE RATE OF DISCHARGE (CFS)		151.00		110.85		20.00		182.00		81.00
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	1.31	1.00	.95				1.57		.70	
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL	JAN	JUL	DEC	JUN	DEC	AUG	DEC	JUL	JAN
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	79.00	40.00	68.00	38.00	80.00	56.00	83.00	48.00	72.00	34.00
67	AT OUTFALL, SUMMER - WINTER	105.00	69.00	82.00	44.00	96.00	68.00	102.00	78.00	88.00	55.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		170.00		106.84		44.00		8,675.00		210.00
69	- WINTER		156.00		91.73		35.00		38,762.00		150.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/										
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		1.45		.24		.35		2.33		.16
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.12		.14		.26		6.64		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		19.13								
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		2.63						6.91		3.39
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			110.00				19.75	1.25	2.90	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/		YES		YES	YES	YES		YES		YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS		PS		PS		ST		ST	
78	RECEIVING WATER BODY							O FRENCH CRAIN		R SCHUYLKILL	
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	11.00							7.00		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	1.00									
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING		1,480.00								
82											

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	7	176.00					4	122.00	3	84.00
84	ONCE THROUGH COOLING (SALINE)			4	47.50						
85	COOLING POND(S)										
86	COOLING TOWER(S)										
87	COMBINATIONS 19/					1	33.00				
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1922	1961				1950	1924	1947	1919	1923
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 20/	13.70	25.00		16.00			10.00	18.00	15.00	19.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		279.20		159.00		55.00		362.00		145.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		243.00				60.00		364.00		145.00

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,711.00		281.50	776.00	328.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)			338.00			94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.00	2.00	25.00			95
96	COST OF CHEMICAL ADDITIVES ($1,000)		14.00	.25			96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	38.00	2.00	16.00			97
98	COST OF CHEMICAL ADDITIVES ($1,000)	6.00	.60	.30			98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	METRO EDISON CO.	METRO EDISON CO.	MILLSTONE POINT C O.	MINNESOTA POWER & LIGHT CO.	MINNESOTA POWER & LIGHT CO.	1
2							2
3							3
4	NAME OF PLANT	PORTLAND	TITUS	MILLSTONE #1	AURORA	BOSWELL	4
5	UTILITY-PLANT CODE	303500-0300	303500-0400	305800-0100	307000-0100	307000-0300	5
6	STATE	PENNSYLVANIA	PENNSYLVANIA	CONNECTICUT	MINNESOTA	MINNESOTA	6
7	COUNTY	NORTHAMPTON	BERKS	NEW LONDON	ST. LOUIS	ITASCA	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	151 02	151 02	041 01	129 09	129 07	8
9	PLANT CAPACITY (MW)	426.70	225.00	661.50	116.10	150.00	9
10	ANNUAL GENERATION (MWH) [3]	2,125,200	1,512,100	14,600	667,800	947,900	10
11	PLANT HEAT RATE (BTU/KWH) [3]	9,889	10,427		12,061	10,463	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	862.00	640.00		406.90	591.50	12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,041	12,129		10,194	8,491	13
14	AVERAGE SULFUR CONTENT (%)	2.54	2.09		1.97	.80	14
15	AVERAGE ASH CONTENT (%)	14.28	13.38		9.17	10.20	15
16	AVERAGE MOISTURE CONTENT (%)	6.11	6.64		19.06	25.83	16
17	OIL: CONSUMPTION (1,000 BARRELS)	42.70	38.80				17
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,303	138,005				18
19	AVERAGE SULFUR CONTENT (%)	.30	.30				19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	3		2	2	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS				2	2	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		3				26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	2					27
28	- NO. WITH DESULFURIZATION SYSTEMS	1					28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	22.00	23.00		22.00	20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				85.00	85.50	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH				85.00	85.50	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	99.00	99.00				33
34	TESTED, LOW - HIGH	99.00	96.70				34
35	EST., LOW - HIGH	99.00	96.70				35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	90.00					36
37	TESTED, LOW - HIGH	90.00					37
38	ESTIMATED, LOW - HIGH	90.00					38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	1.05	2.40		4.76	7.44	39
40	SULFUR DIOXIDE (1,000 TONS)	42.96	26.26		15.71	9.27	40
41	NITROGEN OXIDES (1,000 TONS)	7.85	5.85		3.66	5.32	41
42	STACKS: - TOTAL NO.	2	3		1	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	400.00	200.00		139.00	250.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	140.80	85.60		33.20	50.00	45
46	SOLD (1,000 TONS) [11]	18.70	51.40				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				51.00	84.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		843.00				51
52	COMBINATION PRECIPITATORS ($1,000) [4]	1,355.00					52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	480.00	226.00		43.00	133.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)				21.00	13.20	55
56	REVENUES FROM SALE OF ASH ($1,000)		4.00				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]				21.00	13.20	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		4.00				60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R DELAWARE	R SCHUYLKILL	B NIANTIC	L COLBY	R MISSISSIPPI	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	371.00	205.70	1,000.00	210.00	164.60	62
63	AVERAGE RATE OF DISCHARGE (CFS)	371.00	205.60	1,000.00	210.00	164.60	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.19	1.77 .10	8.60	1.81	1.42	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG OEC	AUG OEC	OEC	AUG NOV	AUG NOV	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	81.00 44.00	77.00 41.00	41.00	88.00 58.00	80.00 38.50	66
67	AT OUTFALL, SUMMER - WINTER	101.00 74.00	95.00 61.00	62.00	98.00 68.00	102.00 79.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	2,632.00	1,490.00	120,000.00	5.00	223.00	68
69	- WINTER	3,120.00	1,490.00	120,000.00	83.00	807.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]			H			70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.60		.88	1.30	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	117.77			.56	24.13	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	6.42	53.60 .40		8.18		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	20.36 7.15	48.00		4.62	16.00 .10	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES YES	YES YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	OT		ST	ST	77
78	RECEIVING WATER BODY	R DELAWARE	R SCHUYLKILL		L COLBY	R MISSISSIPPI	78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	7.00 7.00	5.90		10.10 7.20	9.50 8.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				.19 .40	.40 5.80	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				58.30	56,000.00	81
82	- ASH SETTLING	173,000.00	105,000.00		29,200.00	11,500.00	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 394.50	3 225.00	1 661.50	2 116.10	2 150.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS)						85
86	COOLING TOWER(S)						86
87	COMBINATION [21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958 1962	1951 1953	1968	1953	1958 1959	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00 19.00	20.00	21.30	14.00	13.50	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	468.00	246.60	935.00	186.00	234.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	486.00	246.60	935.00	210.00	240.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	3,447.00	1,146.00		428.00	1,200.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)				25.00	18.50	95
96	COST OF CHEMICAL ADDITIVES ($1,000)				.70	2.40	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)				9.40	2.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)				5.00	4.10	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	MINNESOTA POWER & LIGHT CO.	MINNKOTA POWER COOP.	MISSISSIPPI POWER CO.	MISSISSIPPI POWER CO.	MISSISSIPPI POWER CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	HIBBARD	YOUNG	EATON	STANGARD OIL	SWEATT	4
5	UTILITY-PLANT CODE	5	307000-G700	307500-0550	308000-0100	308000-0200	308000-0300	5
6	STATE	6	MINNESOTA	NORTH DAKOTA	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	6
7	COUNTY	7	ST. LOUIS	OLIVER	FORREST	JACKSON	LAUDERDALE	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	129 04	172 10	005 03	005 03	005 03	8
9	PLANT CAPACITY (MW)	9	122.50	256.50	77.63	33.15	95.00	9
10	ANNUAL GENERATION (MWH)[3]	10	579,300	91,400	330,800	245,318	584,100	10
11	PLANT HEAT RATE (BTU/KWH)[3]	11	14,026		13,665		12,597	11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	398.00	99.20				12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	9,701	6,594				13
14	AVERAGE SULFUR CONTENT (%)	14	1.60	.57				14
15	AVERAGE ASH CONTENT (%)	15	10.34	6.84				15
16	AVERAGE MOISTURE CONTENT (%)	16	17.59	38.91				16
17	OIL: CONSUMPTION (1,000 BARRELS)	17		10.00	90.30		24.50	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		140,000	145,631		147,040	18
19	AVERAGE SULFUR CONTENT (%)	19		.10	4.10		4.00	19
20	GAS: CONSUMPTION (1,000 MCF)	20	405.20		4,169.20	3,699.80	6,719.50	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,012		1,031	1,053	1,073	21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	4	1	3	2	2	22
23	- NO. OF WET BOTTOM	23		1				23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	4	1				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29	26.60 26.80	28.00	10.00		17.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	30.20 85.80	70.00				30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32	30.20 85.00	60.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33						33
34	TESTED, LOW - HIGH	34						34
35	EST., LOW - HIGH	35						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39	8.03	.27	.02			39
40	SULFUR DIOXIDE (1,000 TONS)	40	12.48	1.11	1.24		.33	40
41	NITROGEN OXIDES (1,000 TONS)	41	3.68	2.75	1.01	.72	1.36	41
42	STACKS: - TOTAL NO.	42	3	1	2	2	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43	218.00 345.00	250.00	125.00	38.77	175.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45	31.20	7.00				45
46	SOLD (1,000 TONS)[11]	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50	111.00	220.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51						51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52						52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54	95.00	218.00	39.00		49.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	16.00					55
56	REVENUES FROM SALE OF ASH ($1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59	16.00					59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60						60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R ST. LOUIS	C SQUARE BUTTE	R LEAF		M	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	364.00	11.70	178.00			62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	364.00	10.70	178.00			63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64	3.13	1.00	1.53			64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	65	AUG NOV	MAY OEC	JUN JAN	JUN JAN	JUN JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	83.00 53.00	33.00	90.00 53.00			66
67	AT OUTFALL, SUMMER - WINTER	67	94.00 63.00	35.00	109.00 62.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	840.00		840.00			68
69	- WINTER	69	2,939.00		1,972.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]	70		H				70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	.80		.10	.35	.10	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.10		.35		.70	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73					7.50	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	3.20		9.00			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	76	YES		YES	YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	77	OT	OT	ST	ST	ST	77
78	RECEIVING WATER BODY	78	P ST. LOUIS	C SQUARE BUTTE				78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79	10.50 8.70					79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	4.50 5.50					80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81	1,140.00					81
82	- ASH SETTLING	82	56,800.00					82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	4 124.50		3 77.64			83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING PONDS(S)	85		1 256.50				85
86	COOLING TOWERS(S)	86					2 95.00	86
87	COMBINATION[21]	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1931 1951	1967	1945 1949		1951 1953	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	89	15.00 26.00	20.00	13.80		15.70	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	356.40	250.00	171.00		145.60	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	364.00		177.00			91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	408.00		248.00			92
93	COOLING PONDS ($1,000)	93		850.00				93
94	COOLING TOWERS ($1,000)	94					739.00	94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	42.00		7.00		6.30	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	7.50		1.30		25.60	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	19.00		5.90	4.60	5.90	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	.30		1.00	28.10	1.20	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	MISSISSIPPI POWER & LIGHT CO.	MISSISSIPPI POWER & LIGHT CO.	MISSISSIPPI POWER & LIGHT CO.	MISSISSIPPI POWER & LIGHT CO.	MISSISSIPPI POWER & LIGHT CO.	
4	NAME OF PLANT	WATSON	WILSON	DELTA	NATCHEZ	BROWN	
5	UTILITY-PLANT CODE	308000-0400	308500-0100	308500-0300	308500-0400	308500-0500	
6	STATE	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	
7	COUNTY	HARRISON	WARREN	BOLIVAR	ADAMS	HINDS	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	005 03	005 08	134 08	005 08	005 08	
9	PLANT CAPACITY (MW)	637.35	544.60	220.50	66.00	383.20	
10	ANNUAL GENERATION (MWH) [3]	3,269,300	3,211,500	523,300	292,500	1,621,200	
11	PLANT HEAT RATE (BTU/KWH) [3]	10,178	9,839	11,408	12,766	12,008	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	482.90					
13	AVERAGE HEAT CONTENT (BTU/LB)	12,049					
14	AVERAGE SULFUR CONTENT (%)	2.81					
15	AVERAGE ASH CONTENT (%)	10.69					
16	AVERAGE MOISTURE CONTENT (%)	7.46					
17	OIL: CONSUMPTION (1,000 BARRELS)	43.40	55.70	83.95	14.62	83.29	
18	AVERAGE HEAT CONTENT (BTU/GAL)	139,956	140,000	156,000	155,095	155,952	
19	AVERAGE SULFUR CONTENT (%)	.70	.20	2.90	1.60	2.75	
20	GAS: CONSUMPTION (1,000 MCF)	20,339.90	29,691.25	5,386.92	3,693.11	18,413.12	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,069	1,052	1,016	981	1,033	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	1	2	1	4	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1					
27	- NO. WITH COMBINATION PRECIPITATORS [4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	11.00 20.00	8.00	1.50	17.00	8.00 17.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	98.00					
34	TESTED, LOW - HIGH	97.30					
35	EST., LOW - HIGH						
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	1.19	.01	.01		.01	
40	SULFUR DIOXIDE (1,000 TONS)	26.70	.04	.82	.08	.77	
41	NITROGEN OXIDES (1,000 TONS)	8.41	5.91	1.24	.75	3.77	
42	STACKS: - TOTAL NO.	4	1	4	2	4	
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	169.00 350.00	236.00	130.00	141.00	150.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	51.80					
46	SOLD (1,000 TONS) [11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)	393.50					
52	COMBINATION PRECIPITATORS ($1,000) [4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	269.60		60.00	33.00	92.29	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	49.30					
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	49.30					
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B BILOXI BAY EST	R MISSISSIPPI	O POND	W	R PEARL	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	752.00	485.00	2.81	1.25	.50	
63	AVERAGE RATE OF DISCHARGE (CFS)	752.00	485.00				
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	6.47	4.17	2.81	1.25	.50	
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUN JAN	AUG JAN				
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 58.00	87.00 39.00				
67	AT OUTFALL, SUMMER - WINTER	102.00 75.00	112.00 65.00				
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	986.00	320,000.00				
69	- WINTER	1,160.00	480,000.00				
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D [16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.35		1.35	5.66 3.55	.64	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	4.90	109.00	2.64		60.84	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				329.70		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				81.55		
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		5.29	2.49	1.53	4.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [4]	YES YES	YES	YES	YES YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	OT	ST	ST	PS	
78	RECEIVING WATER BODY [19]		R MISSISSIPPI		C ST. CATHERINE		
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	9.00					
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING	51,600.00					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		1 544.60				
84	ONCE THROUGH COOLING (SALINE)	4 595.50					
85	COOLING POND(S)					2 304.70	
86	COOLING TOWER(S)				1 66.00	2 78.50	
87	COMBINATION [21]			2 220.50			
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1957 1968	1966	1953	1951	1949 1959	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	13.70 19.95	28.00	12.00	14.00	15.60 18.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	683.00	374.00	308.00	109.20	508.90	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	752.00	374.00	308.00			

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,090.70	2,800.00	380.00			
93	COOLING PONDS ($1,000)			595.50		2,432.00	
94	COOLING TOWERS ($1,000)			17.18	250.00	485.60	

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	29.30	67.00	10.00	20.00	73.80	
96	COST OF CHEMICAL ADDITIVES ($1,000)	7.40	.50	.72	21.00	.80	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	25.70	12.70	2.50	1.00	2.40	
98	COST OF CHEMICAL ADDITIVES ($1,000)	24.90	16.30	1.50	.50	7.10	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	MISSOURI PUBLIC SERVICE CO.	MISSOURI PUBLIC SERVICE CO.	MONONGAHELA (ALLEGHENY) POWER CO.	MONONGAHELA (ALLEGHENY) POWER CO.	MONONGAHELA (ALLEGHENY) POWER CO.	1
2							2
3							3
4	NAME OF PLANT	GREEN	SIBLEY	ALBRIGHT	FORT MARTIN	RIVESVILLE	4
5	UTILITY-PLANT CODE	309500-0400	309500-0700	311000-0100	311000-0200	311000-0300	5
6	STATE	MISSOURI	MISSOURI	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA	6
7	COUNTY	CASS	JACKSON	PRESTON	MONONGALIA	MARION	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	094 10	094 10	235 05	235 05	235 05	8
9	PLANT CAPACITY (MW)	49.50	518.50	278.25	1,152.00	174.75	9
10	ANNUAL GENERATION (MWH) [3]	204,800	1,681,600	1,323,700	7,459,100	1,032,600	10
11	PLANT HEAT RATE (BTU/KWH) [3]	14,408	10,354	11,253	9,290	13,443	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	.23	725.00	934.10	2,752.70	545.30	12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,500	12,112	11,203	12,472	12,396	13
14	AVERAGE SULFUR CONTENT (%)	3.50	3.74	2.17	3.18	3.20	14
15	AVERAGE ASH CONTENT (%)	13.00	12.44	17.76	12.70	12.45	15
16	AVERAGE MOISTURE CONTENT (%)	12.00	6.15	6.13	4.63	4.20	16
17	OIL: CONSUMPTION (1,000 BARRELS)			3.95	15.87		17
18	AVERAGE HEAT CONTENT (BTU/GAL)			139,000	139,000		18
19	AVERAGE SULFUR CONTENT (%)			.25	.25		19
20	GAS: CONSUMPTION (1,000 MCF)	2,910.67				660.90	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,015				522	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	2	3	3	2	4	22
23	- NO. OF WET BOTTOM		3			2	23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	2	2	2		4	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		1		2		26
27	- NO. WITH COMBINATION PRECIPITATORS [4]			1			27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	17.00	15.00	20.00	20.00	25.00 45.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00	85.00	83.60			30
31	TESTED, LOW - HIGH			83.00 84.00		70.00 86.00	31
32	ESTIMATED, LOW - HIGH		85.00	83.00		75.00 80.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		99.00	97.50	99.00		33
34	TESTED, LOW - HIGH			79.00	99.30		34
35	EST., LOW - HIGH		99.00	85.00	99.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)		.46	22.63	2.97	12.11	39
40	SULFUR DIOXIDE (1,000 TONS)	.02	53.15	39.73	171.59	34.20	40
41	NITROGEN OXIDES (1,000 TONS)	.57	19.94	8.41	24.81	5.89	41
42	STACKS: - TOTAL NO.	2	3	3	2	6	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	150.00 183.00	700.00	128.00 225.00	550.00	152.00 190.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]		85.40	148.90	428.50	54.30	45
46	SOLD (1,000 TONS) [11]			.80			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	75.00		424.00		465.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)				4,121.00		51
52	COMBINATION PRECIPITATORS ($1,000) [4]			673.00			52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	40.00	1,184.00	202.00	1,531.00	26.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			125.30	156.00	75.80	55
56	REVENUES FROM SALE OF ASH ($1,000)			.40			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]			125.30	215.00	75.80	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			.40			60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L BIG CREEK	R MISSOURI	R CHEAT	R MONONGAHELA	R MONONGAHELA	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	.95	388.00	420.00	40.00	375.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)		388.00	419.50	22.00	374.90	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.95	3.34	3.61 .50	18.00	3.23 .10	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL OEC	JUL OEC	JUL OEC	JUL OEC	JUL OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			79.00 38.00		85.00 41.00	66
67	AT OUTFALL, SUMMER - WINTER			101.00 60.00		101.00 57.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			898.00	3,350.00	2,380.00	68
69	- WINTER			3,460.00	6,429.00	6,010.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.65		.16		1.25	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.27		34.25	240.90 160.80	53.50	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP					25.50	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			4.00	4.70	5.20	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.33		.60	21.90 1.12	.18	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES		YES	YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST/OT	PS	77
78	RECEIVING WATER BODY [19]			R CHEAT	R MONONGAHELA		78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING				6.30	6.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				93.00	69.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING		7,250.00		77,300.00	115,949.99	82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		3 518.50	3 304.00		6 214.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS						85
86	COOLING TOWER(S)	2 49.50			2 1,102.00		86
87	COMBINATION [21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1954 1958	1960 1969	1952 1954	1967 1968	1919 1951	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	18.00	17.50 19.20	22.00	24.00	12.00 23.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	80.00	526.00	341.90	1,114.00	366.70	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		526.00	346.00	1,120.00	367.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)			965.00		475.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)	452.00		710.00	9,724.00		94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)			56.00	243.60	35.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)				14.00	1.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)			24.00	63.00	19.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)			5.00	44.00	11.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	MONONGAHELA (ALLEGHENY) POWER CO.	MONROE, CITY OF	MONTANA-DAKOTA UTIL. CO.	MONTANA-DAKOTA UTIL. CO.	MONTAUP ELECTRIC CO.	1
2							2
3							3
4	NAME OF PLANT	WILLOW ISLAND	MONROE	HESKETT	LEWIS & CLARK	SOMERSET	4
5	UTILITY-PLANT CODE	311000-0400	312000-0100	313000-0500	313000-0900	314000-0100	5
6	STATE	WEST VIRGINIA	LOUISIANA	NORTH DAKOTA	MONTANA	MASSACHUSETTS	6
7	COUNTY	PLEASANTS	OUACHITA	MORTON	RICHLAND	BRISTOL	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	179 05	019 08	172 10	143 10	120 01	8
9	PLANT CAPACITY (MW)	215.00	166.00	100.00	50.00	344.00	9
10	ANNUAL GENERATION (MWH) [3]	1,549,900	522,800	564,800	337,300	1,823,100	10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,789	13,196	12,893	12,666	11,766	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	774.80			519.30	320.50			12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,777			7,027	6,593			13
14	AVERAGE SULFUR CONTENT (%)	4.43			.75	.72			14
15	AVERAGE ASH CONTENT (%)	19.29			6.66	8.13			15
16	AVERAGE MOISTURE CONTENT (%)	5.57			35.89	37.46			16
17	OIL: CONSUMPTION (1,000 BARRELS)	3.39					3,435.20		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	139,000					148,617		18
19	AVERAGE SULFUR CONTENT (%)	.25					2.15		19
20	GAS: CONSUMPTION (1,000 MCF)		6,901.37		2.33	28.40			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1.000		1,040	1,060			21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	7		2	1	8		22
23	- NO. OF WET BOTTOM	1					1		23
24	- NO. WITH FLY ASH REINJECTION	1			2				24
25	- NO. WITH MECHANICAL PRECIPITATORS	1			2	1	2		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1							26
27	- NO. WITH COMBINATION PRECIPITATORS [4]								27
28	- NO. WITH DESULFURIZATION SYSTEMS								28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	4.50 8.00	25.00	30.00	25.00	15.00	40.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00		88.00	90.00	85.70	87.50	88.50	30
31	TESTED, LOW - HIGH	64.00							31
32	ESTIMATED, LOW - HIGH	80.00		88.00	90.00	85.70		85.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	90.00							33
34	TESTED, LOW - HIGH	84.00							34
35	EST., LOW - HIGH	80.00							35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH								36
37	TESTED, LOW - HIGH								37
38	ESTIMATED, LOW - HIGH								38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	8.83		6.03	3.17	.30			39
40	SULFUR DIOXIDE (1,000 TONS)	67.28		7.63	4.52	24.78			40
41	NITROGEN OXIDES (1,000 TONS)	17.70	1.35	3.89	2.89	7.57			41
42	STACKS: - TOTAL NO.	2	7	2	1	4			42
43	- HEIGHT (FEET). LOWEST - HIGHEST [8]	138.00 216.00	65.00 80.00	125.00	200.00	282.00 332.00			43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]					.47			44
45	TOT L ASH: COLLECTED (1,000 TONS) [10]	114.20		31.30	22.80	1.11			45
46	SOLD (1,000 TONS) [11]				.30	.07			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)								47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]								48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)								49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	120.00		95.60	49.00	143.80			50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	407.00							51
52	COMBINATION PRECIPITATORS ($1,000) [4]								52
53	DESULFUPIZATION SYSTEMS ($1,000)								53
54	STACKS ($1,000)	156.00		92.90	43.20	174.30			54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	62.50		32.30	20.00	12.30			55
56	REVENUES FROM SALE OF ASH ($1,000)				.30	3.10			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)								57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)								58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	62.50		33.30	21.00	93.80			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)				.30	3.10			60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	R OUACHITA	R MISSOURI	R YELLOWSTONE	R TAUNTON			61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	225.00	163.00	55.90	40.00	553.00			62
63	AVERAGE RATE OF DISCHARGE (CFS)	224.97	163.00	55.78	39.90	553.00			63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.94 .03	1.40	.48 .12	.34 .10	4.76			64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL DEC	AUG FEB	JUN JAN	JUL JAN	JUN NOV			65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	83.00 37.00	88.00 51.00	55.00 33.00	76.00 33.00	68.00 58.00			66
67	AT OUTFALL, SUMMER - WINTER	99.00 53.00	92.00 54.00	78.00 75.00	107.00 65.00	85.00 70.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	45,000.00	170.00	31,030.00	19,670.00	130,000.00			68
69	- WINTER	70,000.00	123.00	26,980.00	6,950.00	130,000.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]								70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.46	.32	.40	.02	.78			71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	1.25		.36	.06	.93 1.66			72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	20.00		9.83	10.80				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				1.08				74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	6.13 1.00	4.10	.44	.41	39.00			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES YES			76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	PS	OT	OT	ST			77
78	RECEIVING WATER BODY	R OHIO				R TAUNTON			78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING					7.00			79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING								80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			15.50	24.00				81
82	- ASH SETTLING				2,300.00	3.75			82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 245.00	7 165.90	2 100.00	1 50.00				83
84	ONCE THROUGH COOLING (SALINE)					6 344.00			84
85	COOLING PONDS(S)								85
86	COOLING TOWER(S)								86
87	COMBINATIONS [21]								87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949 1960	1945 1968	1954 1963	1958	1925 1959			88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	10.00 21.00	4.00	25.40 28.30	25.00	14.25 19.15			89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	270.70	329.90	98.70	49.00	552.00			90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	297.00	329.90	98.70	49.00	517.00			91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,205.00		692.80	993.70	853.72			92
93	COOLING PONDS ($1,000)								93
94	COOLING TOWERS ($1,000)								94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	32.10		17.00	20.00	87.80			95
96	COST OF CHEMICAL ADDITIVES ($1,000)	.60	2.30			5.10			96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	32.10	9.10	20.00	11.50	3.00			97
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.50	7.40	2.45	3.10	1.30			98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	NEW BEDFORD GAS & EDISON LIGHT CO.		NO. W. ELECTRIC POWER COOP. INC.		NEBRASKA PUBLIC POWER SYS.		NEBRASKA PUBLIC POWER SYS.		NEVADA POWER CO.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	CANNON		MISSOURI CITY		KRAMER		LINCOLN		CLARK		4
5	UTILITY-PLANT CODE	5	327000-0100		327500-0100		331500-0400		331500-0500		333000-0100		5
6	STATE	6	MASSACHUSETTS		MISSOURI		NEBRASKA		NEBRASKA		NEVADA		6
7	COUNTY	7	BRISTOL		CLAY		SARPY		LANCASTER		CLARK		7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	120 01		094 10		085 10		145 10		013 15		8
9	PLANT CAPACITY (MW)	9	120.50		40.00		113.50		30.00		190.28		9
10	ANNUAL GENERATION (MWH) 3/	10	620,900		214,600		348,500		51,400		678,400		10
11	PLANT HEAT RATE (BTU/KWH) 3/	11	15,679		12,666		12,362		24,463		11,496		11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12	3.60		124.67		132.30		11.90				12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,859		10,867		11,930		12,411				13
14	AVERAGE SULFUR CONTENT (%)	14	1.40		3.94		3.54		4.52				14
15	AVERAGE ASH CONTENT (%)	15	10.80		11.68		11.79		11.39				15
16	AVERAGE MOISTURE CONTENT (%)	16	4.80		12.88		6.31		2.69				16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	1,256.20		22.39				8.10		1.84		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	149,097		150,852				146,922		152,200		18
19	AVERAGE SULFUR CONTENT (%)	19	2.07		2.48				4.27		1.30		19
20	GAS: CONSUMPTION (1,000 MCF)	20	1,825.80				1,146.90		919.10		7,159.54		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,000				1,005		998		1,086		21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	12		2		4		3		3		22
23	- NO. OF WET BOTTOM	23			2				1				23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	2		2				2				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	3										26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27											27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	14.30 35.00		20.00		17.00		17.00		9.00 9.50		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	95.00		80.00				85.00				30
31	TESTED, LOW - HIGH	31	95.00		52.00								31
32	ESTIMATED, LOW - HIGH	32	95.00						85.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	33	94.00										33
34	TESTED, LOW - HIGH	34	94.00										34
35	EST., LOW - HIGH	35	56.20 82.00										35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	39	.26		4.55		13.26		.17				39
40	SULFUR DIOXIDE (1,000 TONS)	40	8.82		9.82		9.18		1.17		.01		40
41	NITROGEN OXIDES (1,000 TONS)	41	3.16		1.92		1.41		.30		1.40		41
42	STACKS: - TOTAL NO.	42	6		2		2		2		3		42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	175.00 250.00		130.00		252.00		207.00		100.00 156.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44	.20										44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	.30		12.25		4.20		1.20				45
46	SOLD (1,000 TONS) 11/	46											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50	7.60		20.00				109.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51	166.40										51
52	COMBINATION PRECIPITATORS ($1,000) 4/	52											52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	122.00		20.00		86.00		40.00		77.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	5.00		19.83		12.50		5.00				55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	59	5.00		23.83		12.50		5.00				59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60											60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODE: P, L, R, C, W, M & O EXPL. IN FOOTNOTES)	61	P ACUSHNET		P MISSOURI		R MISSOURI		M		U SEWAGE EFFLNT.		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	43.67		28.40		150.20				2.74		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	43.67		28.40		149.18				.55		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	.38		.24		1.29 .02				2.19		64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	65	AUG OEC		JUN JAN		JUL OEC				AUG OEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	76.00 42.00		85.00 32.00		88.00 36.00						66
67	AT OUTFALL, SUMMER - WINTER	67	96.00 52.00		98.00 43.00		92.00 46.00						67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	43.67		85,000.00		40,240.00						68
69	- WINTER	69	43.67		23,000.00		23,240.00						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71			1.00		.50		1.00		.17		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72			.90		.02		6.50		.05		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73			14.25		75.00		25.00		800.00		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74					20.00						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	.40		.18		15.00		1.00		163.00		75
76	OTHER (WESAND), COOLING WATER - BOILER MAKEUP 17/	76	YES		YES		YES		YES YES		YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	77	PS		ST		SW		PS		ST		77
78	RECEIVING WATER BODY	78					R MISSOURI						78
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	79			6.50 6.00		8.70						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80			2,000.00 250.00		70.00						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81			95.00		185.00						81
82	- ASH SETTLING	82			314.00								82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	83			2 40.00		3 112.50						83
84	ONCE THROUGH COOLING (SALINE)	84	6 115.40										84
85	COOLING PONDS(S)	85											85
86	COOLING TOWER(S)	86							3 29.00		3 190.30		86
87	COMBINATION 21/	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1917 1950		1953		1949 1951		1948 1956		1955 1961		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	89	15.00		12.00				8.00				89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	288.50		105.34		306.00		89.00		317.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	288.50		52.21		321.00						91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	430.50		725.70		1,000.00						92
93	COOLING PONDS ($1,000)	93											93
94	COOLING TOWERS ($1,000)	94							202.00		491.00		94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	16.00				10.00		14.50				95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	3.00				2.30		1.80				96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	9.00		3.00		10.00		21.40				97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	.30		4.64		3.00		3.40				98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	NEVADA POWER CO.	NEVADA POWER CO.	NEW ENGLAND POWER CO.	NEW ENGLAND POWER CO.	NEW JERSEY POWER & LIGHT CO.	
NAME OF PLANT	GARDNER	SUNRISE	BRAYTON	SALEM HARBOR	GILBERT	
UTILITY-PLANT CODE	333000-0300	333000-0500	334000-0200	334000-1200	335000-0100	
STATE	NEVADA	NEVADA	MASSACHUSETTS	MASSACHUSETTS	NEW JERSEY	
COUNTY	CLARK	CLARK	BRISTOL	ESSEX	HUNTERDON	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	013 15	013 15	120 01	119 01	151 02	
PLANT CAPACITY (MW)	227.27	81.60	1,162.00	319.90	126.10	
ANNUAL GENERATION (MWH) [3]	1,397,300	508,300	6,740,300	1,810,600	723,500	
PLANT HEAT RATE (BTU/KWH) [3]	9,991	10,092	8,955	9,953	12,454	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	544.21				266.00	
AVERAGE HEAT CONTENT (BTU/LB)	12,811				12,238	
AVERAGE SULFUR CONTENT (%)	.66				2.10	
AVERAGE ASH CONTENT (%)	5.95				14.27	
AVERAGE MOISTURE CONTENT (%)	6.27				6.68	
OIL: CONSUMPTION (1,000 BARRELS)	6.01	1.95	9,615.30	2,873.20	13.00	
AVERAGE HEAT CONTENT (BTU/GAL)	137,381	152,200	148,873	149,580	146,452	
AVERAGE SULFUR CONTENT (%)	.50	1.20	2.00	2.10	.90	
GAS: CONSUMPTION (1,000 MCF)		4,712.63			2,327.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,086			1,035	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	1	3	3	3	
- NO. OF WET BOTTOM	2		3	3		
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS	2					
- NO. WITH ELECTROSTATIC PRECIPITATORS			3	3	2	
- NO. WITH COMBINATION PRECIPITATORS [4]					1	
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	18.00	8.00	4.00 13.00	18.00 25.00	4.10 10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	88.10					
TESTED, LOW - HIGH	71.85 73.78					
ESTIMATED, LOW - HIGH	80.00					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH			98.40 99.00	97.00	90.00 99.00	
TESTED, LOW - HIGH			98.50 99.50	96.30		
EST., LOW - HIGH			85.00 99.00		88.80 91.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	4.21		.13	.02	3.25	
SULFUR DIOXIDE (1,000 TONS)	3.53	.01	64.52	20.24	10.99	
NITROGEN OXIDES (1,000 TONS)	8.17	.92	21.20	6.34	2.88	
STACKS: - TOTAL NO.	2	1	3	3	3	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	200.00	135.00	352.00	250.00	176.00 205.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]			2.10	.40		
TOTAL ASH: COLLECTED (1,000 TONS) [10]	25.46		4.30	24.00	34.60	
SOLD (1,000 TONS) [11]	1.68					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	93.00					
ELECTROSTATIC PRECIPITATORS ($1,000)			2,182.00	837.00	289.00	
COMBINATION PRECIPITATORS ($1,000) [4]					407.00	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	245.00	26.00	896.00	421.00	61.50	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			481.00	28.40	57.00	
REVENUES FROM SALE OF ASH ($1,000)	1.49		2.00			
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]			533.70	28.40	57.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)	1.49		2.00			

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	RW MUDDY	O SEWAGE EFFLNT.	R TAUNTON	H SALEM	R DELAWARE	
AVERAGE RATE OF WITHDRAWAL (CFS)	3.82	1.69	1,140.00	411.00	276.00	
AVERAGE RATE OF DISCHARGE (CFS)		.34	1,140.00	411.00	276.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.82	1.35	9.80	3.53	2.37	
PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG DEC	AUG DEC	AUG DEC	AUG DEC	JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			80.00 51.00	78.60 48.00	86.00 48.00	
AT OUTFALL, SUMMER - WINTER			95.00 66.00	91.00 63.60	95.00 57.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			TIDAL	TIDAL	11,252.00	
- WINTER			TIDAL	TIDAL	10,640.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	30.00 .06	1.42 .16	4.00	7.48	.58	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.03	203.30	209.03	5.54		
LIME (TONS), COOLING WATER - BOILER MAKEUP		525.00				
ALUM (TONS), COOLING WATER - BOILER MAKEUP					.38	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	12.00	280.00	159.80	37.20	1.65 .15	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	PS		
RECEIVING WATER BODY						
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	10.70		4.50 4.50	9.50 6.60		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			2,000.00	10.00 12.50		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			56.18	64.35		
- ASH SETTLING	42,300.00		15,646.00	30,835.20		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)					3 126.10	
ONCE THROUGH COOLING (SALINE)			3 1,162.00	3 319.94		
COOLING PONDS)						
COOLING TOWERS)	2 227.30	1 81.60				
COMBINATIONS [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1964 1967	1964	1963 1969	1951 1958	1930 1949	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	17.00 18.00		12.00 17.33	8.70 14.00	13.20 17.30	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	275.00	106.10	1,403.60	586.39	221.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			1,398.10	586.39	233.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)			3,963.00	679.30	290.50
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)	637.00	180.00			

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)				23.50	16.00
COST OF CHEMICAL ADDITIVES ($1,000)			35.18	12.30	4.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)			65.00	14.10	18.00
COST OF CHEMICAL ADDITIVES ($1,000)			22.24	4.00	1.30

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

| | | |

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	NEW YORK STATE ELECTRIC & GAS CORP.	NEW YORK STATE ELECTRIC & GAS CORP.	NEW YORK STATE ELECTRIC & GAS CORP.	NIAGARA-MOHAWK POWER CORP.	NIAGARA-MOHAWK POWER CORP.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	HICKLING	JENNISON	MILLIKEN	OSWEGO	ALBANY	4
5	UTILITY-PLANT CODE	5	339000-0900	339000-1100	339000-1400	341000-3800	341000-5900	5
6	STATE	6	NEW YORK	NEW YORK	NEW YORK	NEW YORK	NEW YORK	6
7	COUNTY	7	STEUBEN	CHENANGO	TOMPKINS	OSWEGO	ALBANY	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	164 02	163 02	164 04	158 04	161 02	8
9	PLANT CAPACITY (MW)	9	70.00	60.00	270.00	376.00	400.00	9
10	ANNUAL GENERATION (MWH) [3]	10	524,000	298,300	2,030,100	1,987,500	2,501,900	10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	14,429	14,787	9,394	11,072	9,633	11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	335.88	203.39	840.69	833.00	765.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,278	10,870	11,314	13,185	12,787	13
14	AVERAGE SULFUR CONTENT (%)	14	1.66	2.07	2.36	2.54	2.65	14
15	AVERAGE ASH CONTENT (%)	15	20.60	20.17	18.65	8.75	10.81	15
16	AVERAGE MOISTURE CONTENT (%)	16	5.38	7.50	6.03	4.71	4.76	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17			14.93		726.11	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18			137,565		149,169	18
19	AVERAGE SULFUR CONTENT (%)	19			.14		2.52	19
20	GAS: CONSUMPTION (1,000 MCF)	20						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21						21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	4	4	2	4	4	22
23	- NO. OF WET BOTTOM	23	4	4	2	4		23
24	- NO. WITH FLY ASH REINJECTION	24	4	4				24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	4	4		4	4	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26			2			26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	25.00 28.00		24.00	12.00	22.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	90.00 93.50	92.00		89.00	80.00 89.00	30
31	TESTED, LOW - HIGH	31				83.00 89.90	81.70	31
32	ESTIMATED, LOW - HIGH	32	86.00	86.00		86.00 89.00	75.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33			98.00			33
34	TESTED, LOW - HIGH	34			84.00 86.00			34
35	EST., LOW - HIGH	35			85.00			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39	14.28	8.47	15.29	6.00	17.61	39
40	SULFUR DIOXIDE (1,000 TONS)	40	10.93	8.25	38.89	41.49	45.89	40
41	NITROGEN OXIDES (1,000 TONS)	41	2.52	1.53	12.64	12.50	8.49	41
42	STACKS: - TOTAL NO.	42	2	2	2	4	4	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	142.00	152.00	250.00	364.00	345.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45	83.20	49.40	151.00	74.85	57.50	45
46	SOLD (1,000 TONS) [11]	46		49.40				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50	108.30	106.90		341.30	317.10	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51			777.31			51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52						52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54	55.30	67.88	1,505.57	222.90	308.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	79.44	92.57	77.35	19.90	35.00	55
56	REVENUES FROM SALE OF ASH ($1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59	79.44	125.87	201.06	19.90	35.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60		12.10				60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R CHEMUNG	R SUSQUEHANNA	L CAYUGA	L ONTARIO	R HUDSON	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	111.09	82.61	369.02	500.00	784.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	111.07	82.59	368.99	500.00	784.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	.96 .03	.71 .02	3.17 .03	4.30	6.74	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	AUG JAN	AUG JAN	AUG JAN	JUN DEC	JUN DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	75.00 43.00	74.00 33.00	65.00 37.00	66.00	74.00	66
67	AT OUTFALL, SUMMER - WINTER	67	94.00 72.00	88.00 51.00		77.00 52.00	85.00 43.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	306.00	470.00	343.00		9,092.00	68
69	- WINTER	69	1,149.00	1,615.00	779.00		12,830.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D [16]	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	.10			.08	.20	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.10		78.29	109.71	.05	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		1.14	.20	.38		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	3.75	2.25	4.00 .60		112.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	ST	ST/OT	ST	PS	ST	77
78	RECEIVING WATER BODY	78		R SUSQUEHANNA	L CAYUGA		O DRAIN FIELD	78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	79	10.90 7.70	7.80		11.80	10.80	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81	25.42					81
82	- ASH SETTLING	82				20,000.00		82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83	2 70.00	2 60.00	2 270.00	4 376.00	4 400.00	83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING PONDS	85						85
86	COOLING TOWERS	86						86
87	COMBINATION [21]	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1948 1952	1945 1950	1955 1958	1940 1951	1952 1954	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	21.50 23.00		25.00	11.50 13.20	10.30	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	116.00	96.80	376.00	736.00	780.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	118.50	100.80	376.60	736.00	780.00	91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	392.00	291.00	715.00	1,516.40	410.40	92
93	COOLING PONDS ($1,000)	93						93
94	COOLING TOWERS ($1,000)	94						94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	11.00	20.30	10.90	2.20	15.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	.73	.44	.50		9.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	7.59	17.40	6.00	1.50	30.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	.94	.61	9.50	10.70	2.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	NIAGARA-MOHAWK POWER CORP.	NIAGARA-MOHAWK POWER CORP.	NIAGARA-MOHAWK POWER CORP.	NORTHERN INDIANA PUBLIC SERVICE CO.	NORTHERN INDIANA PUBLIC SERVICE CO.		
NAME OF PLANT	HUNTLEY	OUNKIRK	9 MILE POINT NUC	BAILLY	MITCHELL		
UTILITY-PLANT CODE	341000-7900	341000-8000	341000-8100	345500-0100	345500-0300		
STATE	NEW YORK	NEW YORK	NEW YORK	INDIANA	INDIANA		
COUNTY	ERIE	CHAUTAUQUA	OSWEGO	PORTER	LAKE		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	162 04	164 04	158 04	067 04	067 04		
PLANT CAPACITY (MW)	828.00	628.00	500.00	615.60	529.40		
ANNUAL GENERATION (MWH) [3]	4,229,600	2,948,800	1,686,800	3,061,200	3,048,800		
PLANT HEAT RATE (BTU/KWH) [3]	10,130	9,894		10,014	9,911		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,710.00	1,206.00		954.04	1,244.71			
AVERAGE HEAT CONTENT (BTU/LB)	12,689	12,076		11,307	11,301			
AVERAGE SULFUR CONTENT (%)	2.45	1.67		3.54	3.07			
AVERAGE ASH CONTENT (%)	10.82	13.20		9.77	9.85			
AVERAGE MOISTURE CONTENT (%)	4.95	5.82		11.76	10.92			
OIL: CONSUMPTION (1,000 BARRELS)								
AVERAGE HEAT CONTENT (BTU/GAL)								
AVERAGE SULFUR CONTENT (%)								
GAS: CONSUMPTION 11,000 MCF)				9,080.64	2,082.71			
AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,000	1,000			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	6	4		2	4			
- NO. OF WET BOTTOM	4			2				
- NO. WITH FLY ASH REINJECTION				2				
- NO. WITH MECHANICAL PRECIPITATORS		2						
- NO. WITH ELECTROSTATIC PRECIPITATORS				2	4			
- NO. WITH COMBINATION PRECIPITATORS [4]	6	2						
- NO. WITH DESULFURIZATION SYSTEMS								
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	14.00 15.00	15.00 18.00		16.00 17.00	18.00 19.00			
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		82.00						
TESTED, LOW - HIGH		81.60 85.60						
ESTIMATED, LOW - HIGH		80.00 83.00						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	90.60 96.50	95.50		96.50	98.00			
TESTED, LOW - HIGH	94.00 97.30	95.10 96.30			98.40			
EST., LOW - HIGH	94.00	93.50 95.50		96.50 98.80	85.00 92.00			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH								
TESTED, LOW - HIGH								
ESTIMATED, LOW - HIGH								

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	8.36	12.33		.20	10.03			
SULFUR DIOXIDE (1,000 TONS)	82.04	39.32		66.20	74.90			
NITROGEN OXIDES (1,000 TONS)	20.31	10.81		28.01	11.61			
STACKS: - TOTAL NO.	2	3		1	2			
- HEIGHT (FEET), LOWEST - HIGHEST [8]	350.00 310.00	312.00		400.00	236.00			
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]								
TOTAL ASH: COLLECTED (1,000 TONS) [10]	184.30	215.30		92.50	120.40			
SOLD (1,000 TONS) [11]	1.10			86.30	10.50			
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)								
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]								
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)								
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		149.00						
ELECTROSTATIC PRECIPITATORS ($1,000)				1,108.00	1,506.00			
COMBINATION PRECIPITATORS ($1,000) [4]	1,417.80	832.40						
DESULFURIZATION SYSTEMS ($1,000)								
STACKS ($1,000)	1,730.10	617.80		544.00	537.00			
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	553.20	858.80		110.00	171.00			
REVENUES FROM SALE OF ASH ($1,000)	1.40			14.60	2.00			
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)								
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)								
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	553.20	858.80		115.00	181.10			
TOTAL BYPRODUCT SALES REVENUES ($1,000)				14.60	2.00			

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R NIAGARA	L ERIE	L ONTARIO	L MICHIGAN	L MICHIGAN			
AVERAGE RATE OF WITHDRAWAL (CFS)	1,160.00	890.00	503.00	457.00	690.00			
AVERAGE RATE OF DISCHARGE (CFS)	1,160.00	890.00	503.00	457.00	690.00			
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	9.98	7.65	4.33	3.93	5.93			
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUN DEC	JUN DEC	JUN DEC	AUG JAN	AUG JAN			
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	76.00	60.70	39.00	70.00 40.00	70.00 40.00			
AT OUTFALL, SUMMER - WINTER	90.00 50.00	72.20 45.70	64.00	86.00 60.00	80.00 48.00			
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	231,000.00							
- WINTER	207,000.00							
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D [16]			H					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.05	.10		.28	1.16			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	85.91	29.10	134.41	37.70	12.50			
LIME (TONS), COOLING WATER - BOILER MAKEUP	15.00	11.86	28.00					
ALUM (TONS), COOLING WATER - BOILER MAKEUP		.68		11.00	4.00			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	120.00		.20	14.00	9.00			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES			
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	PS	OT	ST	ST			
RECEIVING WATER BODY			L ONTARIO					
POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	7.80	8.00			11.50			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	3.00	40.00			79.40			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	11,000.00	46,350.00		17,000.00	140,000.00			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	6 828.00	4 628.00	1 500.00	2 615.60	4 550.90			
ONCE THROUGH COOLING (SALINE)								
COOLING PONDS(S)								
COOLING TOWER(S)								
COMBINATIONS [21]								
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1942 1958	1950 1960	1967	1962 1968	1956 1970			
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	10.70 13.70	11.50 15.20	32.00	10.00 21.00	10.00			
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,292.00	892.00	557.00	685.00	1,155.00			
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,292.00	892.00	600.00	685.00	1,155.00			

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	3,637.80	4,593.60	7,860.00	3,915.00	2,522.00			
COOLING PONDS ($1,000)								
COOLING TOWERS ($1,000)								

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	45.10	9.20	3.00	.90	.90			
COST OF CHEMICAL ADDITIVES ($1,000)	14.90			1.20	1.60			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	32.70	21.36	6.00	11.00	26.00			
COST OF CHEMICAL ADDITIVES ($1,000)	7.10	2.97	1.90	3.20	8.20			

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	NORTHERN INDIANA PUBLIC SERVICE CO.	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)		
NAME OF PLANT	MICHIGAN CITY	BLACK DOG	HIGH BRIDGE	KING	LAWRENCE		
UTILITY-PLANT CODE	345500-0400	347000-0300	347000-1300	347000-1400	347000-1500		
STATE	INDIANA	MINNESOTA	MINNESOTA	MINNESOTA	SOUTH DAKOTA		
COUNTY	LAPORTE	DAKOTA	RAMSEY	WASHINGTON	MINNEHAHA		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	082 C4	131 C7	131 07	131 07	087 10		
PLANT CAPACITY (MW)	215.03	486.66	463.84	598.40	48.00		
ANNUAL GENERATION (MWH) [3]	727,600	2,504,178	2,801,700	3,258,575	124,500		
PLANT HEAT RATE (BTU/KWH) [3]	12,434	10,690	11,285	9,508	14,427		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	251.38	614.79	587.56	1,384.29	31.81		
AVERAGE HEAT CONTENT (BTU/LB)	11,015	11,288	11,046	11,190	10,400		
AVERAGE SULFUR CONTENT (%)	3.15	3.57	3.54	3.54	2.23		
AVERAGE ASH CONTENT (%)	10.21	11.04	11.83	11.69	10.03		
AVERAGE MOISTURE CONTENT (%)	13.52	11.45	12.41	10.93	17.20		
OIL: CONSUMPTION (1,000 BARRELS)		2.77	136.29		.40		
AVERAGE HEAT CONTENT (BTU/GAL)		134,200	134,203		134,200		
AVERAGE SULFUR CONTENT (%)		.10	.60		.30		
GAS: CONSUMPTION (1,000 MCF)	3,508.97	12,866.68	18,118.30		1,125.86		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	1,001	986		1,005		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	6	4	12	1	3		
- NO. OF WET BOTTOM	6			1			
- NO. WITH FLY ASH REINJECTION				1	2		
- NO. WITH MECHANICAL PRECIPITATORS	2				3		
- NO. WITH ELECTROSTATIC PRECIPITATORS	3	4	4	1			
- NO. WITH COMBINATION PRECIPITATORS [4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	23.00 25.00	20.00 25.00	16.00	25.00 35.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	60.00				85.00 94.00		
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH					85.00 94.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	90.00 98.00	97.00 97.80	94.00 98.00	99.00			
TESTED, LOW - HIGH	95.60 98.20		43.00 93.10	98.50			
EST., LOW - HIGH	89.80 98.00	97.00 97.80	50.00	98.50			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.37	1.59	11.83	4.39	.36		
SULFUR DIOXIDE (1,000 TONS)	15.52	43.02	41.04	96.05	1.39		
NITROGEN OXIDES (1,000 TONS)	6.99	8.05	9.12	10.38	.48		
STACKS: - TOTAL NO.	4	4	5	1	3		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	270.00	289.00	292.50	789.00	165.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
TOTAL ASH: COLLECTED (1,000 TONS) [10]	24.70	62.00	66.00	162.00	2.70		
SOLD (1,000 TONS) [11]	4.20						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	153.40				36.00		
ELECTROSTATIC PRECIPITATORS ($1,000)	726.00	1,306.00	962.00	1,370.00			
COMBINATION PRECIPITATORS ($1,000) [4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	236.00	580.00	500.00	1,635.00	201.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	56.10	60.00	115.00	72.00	16.30		
REVENUES FROM SALE OF ASH ($1,000)	1.00						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	74.80	60.00	115.00	121.00	16.30		
TOTAL BYPRODUCT SALES REVENUES ($1,000)	1.00						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L MICHIGAN	R MINNESOTA	R MISSISSIPPI	R ST. CROIX	RW BIG SIOUX		
AVERAGE RATE OF WITHDRAWAL (CFS)	229.00	205.00	459.00	434.00	.56		
AVERAGE RATE OF DISCHARGE (CFS)	229.00	203.00	459.00	434.00	.22		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.97	2.00	3.95		.34		
PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG JAN	JUL DEC	JUL DEC	JUL DEC	JUL DEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 40.00	84.00 33.00	83.60 35.00	81.00 34.00	80.00 34.00		
AT OUTFALL, SUMMER - WINTER	90.00 59.00	94.00 43.00	103.00 68.00	86.00 59.00	80.00 39.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		2,349.00	7,185.00	2,000.00	61.00		
- WINTER		4,139.00	9,690.00	2,100.00	72.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.10	1.22	24.40		2.75 .16		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	1.40	.92	10.60		1.60		
LIME (TONS), COOLING WATER - BOILER MAKEUP					184.50		
ALUM (TONS), COOLING WATER - BOILER MAKEUP			2.73		3.25		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	6.30	135.35	7.83	7.80	1.65		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES		YES	YES	YES YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	ST	PS	PS	ST		
RECEIVING WATER BODY		L BLACK DOG					
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	7.50	7.70			1.00		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	100.00	103.60					
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		2,780.00	93.00		10.70		
- ASH SETTLING	35,000.00	103,900.00			361.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	3 215.04		6 463.84				
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)							
COOLING TOWER(S)					3 48.00		
COMBINATION [21]		4 486.66		1 598.40			
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1931 1951	1952	1923 1959	1968	1948 1951		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	8.79 10.00	18.00	18.00 20.00	16.90	14.50 15.40		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	516.00	574.90	662.90	619.50	100.30		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	516.00	574.90	662.90	619.50	1.20		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	799.00	1,565.00	2,142.00	1,819.00	715.00		
COOLING PONDS ($1,000)		282.00					
COOLING TOWERS ($1,000)				1,633.00	308.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	.90	36.00	12.00	75.00	30.00		
COST OF CHEMICAL ADDITIVES ($1,000)	2.00	20.00	1.20	2.10	13.30		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	22.00	11.00	20.00	2.50	10.00		
COST OF CHEMICAL ADDITIVES ($1,000)	2.00	.40	8.40	6.70	.60		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	NORTHERN STATES POWER CO. (MINN.)		NORTHERN STATES POWER CO. (MINN.)		NORTHERN STATES POWER CO. (MINN.)		NORTHERN STATES POWER CO. (MINN.)		NORTHERN STATES POWER CO. (MINN.)	1
2		2										2
3		3										3
4	NAME OF PLANT	4	MINNESOTA VALLEY		RIVERSIDE		SOUTHEAST		WILMARTH		WINONA	4
5	UTILITY-PLANT CODE	5	347000-1800		347000-2700		347000-3000		347000-3600		347000-3700	5
6	STATE	6	MINNESOTA		MINNESOTA		MINNESOTA		MINNESOTA		MINNESOTA	6
7	COUNTY	7	CHIPPEWA		HENNEPIN		HENNEPIN		BLUE EARTH		WINONA	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	133 07		131 07		131 07		128 07		128 07	8
9	PLANT CAPACITY (MW)	9	66.00		518.36		30.00		25.00		26.00	9
10	ANNUAL GENERATION (MWH) [3]	10	166,000		2,265,100		40,500		66,400		42,800	10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	13,205		11,656		18,381		14,078		16,654	11
	AIR QUALITY CONTROL DATA											
	FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)	12	64.24		860.46				19.04		32.35	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,491		10,510				11,869		11,214	13
14	AVERAGE SULFUR CONTENT (%)	14	2.53		2.71				3.10		3.38	14
15	AVERAGE ASH CONTENT (%)	15	12.97		10.67				11.49		12.04	15
16	AVERAGE MOISTURE CONTENT (%)	16	11.89		15.23				8.16		10.62	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	.70		97.22		40.45					17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	134,200		134,860		134,200					18
19	AVERAGE SULFUR CONTENT (%)	19	.30		.30		.30					19
20	GAS: CONSUMPTION (1,000 MCF)	20	711.92		7,869.10		519.97		480.47			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,005		987		988		1,004			21
	PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.	22	4		18		3		2		4	22
23	- NO. OF WET BOTTOM	23			1							23
24	- NO. WITH FLY ASH REINJECTION	24			1				2		1	24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	1		5				2		1	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26			3							26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27										27
28	- NO. WITH DESULFURIZATION SYSTEMS	28										28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	20.00 23.00		20.00 30.00		30.00		35.00		36.00 50.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30			94.00				94.00		94.00	30
31	TESTED, LOW - HIGH	31	82.90		94.00							31
32	ESTIMATED, LOW - HIGH	32			94.00				94.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33			98.00							33
34	TESTED, LOW - HIGH	34			97.00 98.00							34
35	EST., LOW - HIGH	35			90.00 97.00							35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36										36
37	TESTED, LOW - HIGH	37										37
38	ESTIMATED, LOW - HIGH	38										38
	PLANT OPERATING DATA AND COST OF EQUIPMENT											
39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39	2.67		1.46		.01		.22		.84	39
40	SULFUR OIOXIOE (1,000 TONS)	40	3.19		45.80		.04		1.16		2.14	40
41	NITROGEN OXIOES (1,000 TONS)	41	.69		21.03		.19		.24		.24	41
42	STACKS: - TOTAL NO.	42	2		9		2		2		4	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	277.50		253.00		225.00		158.50	56.40	200.80	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44										44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45	6.00		92.00				2.00		3.40	45
46	SOLD (1,000 TONS) [11]	46										46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47										47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48										48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49										49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50	52.00		158.40				17.10		58.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51			1,002.00							51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52										52
53	DESULFURIZATION SYSTEMS ($1,000)	53										53
54	STACKS ($1,000)	54	169.00		676.00		25.00		117.00		85.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	9.50		105.00				6.00		6.00	55
56	REVENUES FROM SALE OF ASH ($1,000)	56										56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57										57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58										58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59	9.50		105.00				6.00		6.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60										60
	WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R MINNESOTA		R MISSISSIPPI				R MINNESOTA		R MISSISSIPPI	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	34.00		359.00		18.30		17.60		25.80	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	34.00		359.00		18.30		17.60		25.80	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	.29		3.09		.16		.15		.22	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	JUL OEC		JUL OEC		JUL OEC		JUL OEC		JUL OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	87.00 32.00		85.00 42.00		88.00 42.00		85.00 32.00		78.00 32.00	66
67	AT OUTFALL, SUMMER - WINTER	67	101.00 63.00		97.00 66.00		100.00 58.00		105.00 60.00		91.00 52.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	573.00		5,018.00		5,018.00		2,152.00		9,200.00	68
69	- WINTER	69	533.00		5,568.00		5,568.00		2,447.00		12,000.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT [16]	70										70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS) [1], COOLING WATER - BOILER MAKEUP	71	.43		.91		1.69		.19		.25	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.28		.31		.01		.14		.23	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	4.23						2.37		2.30	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	.07						.03		.04	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	1.60		15.00				2.00		.15	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES		YES		YES		YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	ST		PS		PS		ST		PS	77
78	RECEIVING WATER BODY	78							O DRAIN FIELD			78
79	POND DISCHARGE [18]: PH, BOILER BLOWDOWN - ASH SETTLING	79	8.60									79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	91.00									80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81	46.50		4,204.27		110.00		1.30		4.00	81
82	- ASH SETTLING	82	2,674.00									82
	COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83	3 66.00		8 518.36		2 30.00		2 25.00		3 26.00	83
84	ONCE THROUGH COOLING (SALINE)	84										84
85	COOLING POND(S)	85										85
86	COOLING TOWER(S)	86										86
87	COMBINATION [21]	87										87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1930 1953		1914 1964		1917 1946		1948 1951		1916 1951	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	16.00		15.00 18.40		15.00		18.00		2.70	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	92.40		911.50		108.00		51.20		86.70	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	92.40		911.50		108.00		51.20		86.70	91
	CAPITAL COSTS OF COOLING FACILITIES											
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	344.00		2,164.00		49.00		390.00		158.00	92
93	COOLING PONDS ($1,000)	93										93
94	COOLING TOWERS ($1,000)	94										94
	ANNUAL COOLING WATER EXPENSES											
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	7.50		95.00		3.00		6.00		6.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	.24		2.30				.30		.10	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	1.00		15.00		1.20		4.50		1.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	1.08		1.40		.50		.40		.60	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO. 4	
NAME OF PLANT	FRENCH ISLAND	PATHFINDER	EDGEWATER	GORGE STEAM	MAD RIVER	
UTILITY-PLANT CODE	347000-4700	347000-5250	354500-0100	354500-0200	354500-0300	
STATE	WISCONSIN	SOUTH DAKOTA	OHIO	OHIO	OHIO	
COUNTY	LACROSSE	MINNEHAHA	LORAIN	SUMMIT	CLARK	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	128 07	087 10	174 04	174 04	173 05	
PLANT CAPACITY (MW)	25.00	75.00	192.87	87.50	75.00	
ANNUAL GENERATION (MWH) 3/	51,900	230,800	618,100	375,100	156,500	
PLANT HEAT RATE (BTU/KWH) 3/	19,646	13,415	11,474	12,785	14,564	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	45.22		311.20	210.70	99.10	
AVERAGE HEAT CONTENT (BTU/LB)	11,464		11,394	11,381	11,501	
AVERAGE SULFUR CONTENT (%)	3.15		2.63	3.42	1.45	
AVERAGE ASH CONTENT (%)	11.50		14.26	12.82	13.83	
AVERAGE MOISTURE CONTENT (%)	8.64		6.86	7.51	8.10	
OIL: CONSUMPTION (1,000 BARRELS)		257.56				
AVERAGE HEAT CONTENT (BTU/GAL)		143,380				
AVERAGE SULFUR CONTENT (%)		.80				
GAS: CONSUMPTION (1,000 MCF)		1,533.31				
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,006				

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	3	3	2	4	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION	1				4	
- NO. WITH MECHANICAL PRECIPITATORS	1		2			
- NO. WITH ELECTROSTATIC PRECIPITATORS			3			
- NO. WITH COMBINATION PRECIPITATORS 4/				2		
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	35.00	15.00	25.00 27.00	25.00 30.00	18.00 22.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	86.50		85.00		55.00 80.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH	86.50				55.00 80.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH			98.00 99.00	98.00		
TESTED, LOW - HIGH						
EST., LOW - HIGH			89.30 99.50	99.50		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	2.21	.04	1.18	.11	2.70	
SULFUR DIOXIDE (1,000 TONS)	2.79	.59	16.04	14.12	2.82	
NITROGEN OXIDES (1,000 TONS)	.34	.87	2.80	1.90	.86	
STACKS: - TOTAL NO.	2	1	2	2	3	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	125.00	150.00	254.00 280.00	275.00	130.00 275.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/	4.30		42.20	26.50	11.60	
SOLD (1,000 TONS) 11/			5.70			
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	68.00		68.00		37.00	
ELECTROSTATIC PRECIPITATORS ($1,000)			1,281.00			
COMBINATION PRECIPITATORS ($1,000) 4/				1,071.00		
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	55.00	83.00	93.00	47.00	25.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	2.80		61.00	73.60	33.00	
REVENUES FROM SALE OF ASH ($1,000)			3.80			
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	2.80		61.00	73.60	33.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)			3.80			

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R BLACK	R BIG SIOUX	L ERIE	R CUYAHOGA	R MAD	
AVERAGE RATE OF WITHDRAWAL (CFS)	48.00	.88	135.58	102.64	45.35	
AVERAGE RATE OF DISCHARGE (CFS)	48.00	.24	135.54	102.58	45.33	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.41	.64	1.17 .04	.88 .06	.39 .02	
PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL OEC	JUL OEC	JUL OEC	JUL OEC	JUL OEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	73.00 32.00	73.00 34.00	82.00 53.00	81.00 45.00	73.00 51.00	
AT OUTFALL, SUMMER - WINTER	84.00 38.00	80.00 40.00	104.00 84.00	97.00 65.00	84.00 64.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	638.00	61.00		237.50	353.00	
- WINTER	2,000.00	72.00		651.90	269.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C 16/						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.07	.65	.02			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.02	23.00	36.32	8.45		
LIME (TONS), COOLING WATER - BOILER MAKEUP		274.00			.70	
ALUM (TONS), COOLING WATER - BOILER MAKEUP		49.95			.45	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.05	4.00	4.00	9.00	.53	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/		YES YES	YES	YES YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	ST	ST/PS	ST	ST	
RECEIVING WATER BODY			O LEACHING FIELD	R CUYAHOGA		
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING			6.27			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			166.00			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	.26	53.00				
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	2 25.00		3 192.87	2 87.50	3 75.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)		1 75.00				
COMBINATIONS 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1940 1948	1962	1923 1957	1943 1948	1927 1949	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	18.00	16.00	15.00	16.00 17.00	15.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	82.20	133.10	325.30	196.08	172.80	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	82.20	1.35	325.30	196.08	172.80	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	99.00	1,622.01	1,519.63	182.63	24.10	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)		576.00				

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.00	90.00	25.50	15.30	40.70	
COST OF CHEMICAL ADDITIVES ($1,000)	.04	34.40	.40	1.20	.20	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.00	30.00	8.60	6.50	1.60	
COST OF CHEMICAL ADDITIVES ($1,000)	.02	9.30	4.20	4.60	.70	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO.	OHIO POWER CO.		
NAME OF PLANT	NILES	BURGER	TORONTO	SAMMIS	KAMMER		
UTILITY-PLANT CODE	354500-0400	354500-0500	354500-0600	354500-0700	355000-0100		
STATE	OHIO	OHIO	OHIO	OHIO	WEST VIRGINIA		
COUNTY	TRUMBULL	BELMONT	JEFFERSON	JEFFERSON	MARSHALL		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	178 05	181 05	181 05	181 05	181 05		
PLANT CAPACITY (MW)	250.00	544.00	315.75	1,680.50	675.00		
ANNUAL GENERATION (MWH) [3]	1,203,500	2,808,700	600,900	9,456,900	4,340,100		
PLANT HEAT RATE (BTU/KWH) [3]	10,532	10,594	14,786	9,267	9,782		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	556.50	1,275.70	409.70	3,862.90	1,768.00	
AVERAGE HEAT CONTENT (BTU/LB)	11,388	12,058	10,844	11,343	11,980	
AVERAGE SULFUR CONTENT (%)	3.34	3.67	2.39	2.64	4.12	
AVERAGE ASH CONTENT (%)	15.47	11.55	16.77	14.04	12.96	
AVERAGE MOISTURE CONTENT (%)	6.32	5.88	7.59	7.38	6.08	
OIL: CONSUMPTION (1,000 BARRELS)						
AVERAGE HEAT CONTENT (BTU/GAL)						
AVERAGE SULFUR CONTENT (%)						
GAS: CONSUMPTION (1,000 MCF)						
AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	8	10	6	3	
- NO. OF WET BOTTOM	2		8		3	
- NO. WITH FLY ASH REINJECTION					3	
- NO. WITH MECHANICAL PRECIPITATORS	2	6	10		3	
- NO. WITH ELECTROSTATIC PRECIPITATORS			3	6		
- NO. WITH COMBINATION PRECIPITATORS [4]		2				
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00	25.00	20.00 30.00	18.00 20.00	20.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	70.00	80.00 85.00	80.00 91.10		80.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH	70.00	80.00	90.50 91.10		85.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		97.00	99.00	97.00 99.00		
TESTED, LOW - HIGH						
EST., LOW - HIGH		97.00	81.10 87.70	98.00 99.50		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	2.58	11.42	7.17	6.21	3.76	
SULFUR DIOXIDE (1,000 TONS)	36.43	91.76	19.19	199.88	142.77	
NITROGEN OXIDES (1,000 TONS)	15.30	11.48	4.40	34.77	48.62	
STACKS: - TOTAL NO.	2	5	8	3	2	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	300.00 245.00	305.00	131.00 134.00	504.00 850.00	600.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	83.60	136.10	59.70	533.30	242.90	
SOLD (1,000 TONS) [11]	77.60	15.80		13.10	119.20	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	172.00	208.00	530.00			
ELECTROSTATIC PRECIPITATORS ($1,000)			2,394.00	3,498.00		
COMBINATION PRECIPITATORS ($1,000) [4]		724.00				
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	104.00	250.00	24.00	3,252.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	103.30	255.20	48.20	652.30	111.80	
REVENUES FROM SALE OF ASH ($1,000)	25.40	5.50		6.30		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	223.50	257.20	48.70	652.30	111.80	
TOTAL BYPRODUCT SALES REVENUES ($1,000)	25.40	5.50		6.30		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES: R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MAHONING	R OHIO	R OHIO	R OHIO	R OHIO	
AVERAGE RATE OF WITHDRAWAL (CFS)	236.88	531.09	205.12	1,553.85	1,000.00	
AVERAGE RATE OF DISCHARGE (CFS)	236.83	530.92	205.05	1,553.50	1,000.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	2.04 .05	4.57 .17	1.76 .07	13.36 .35	8.60	
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL DEC	JUL DEC	JUL DEC	DEC	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00 48.00	83.00 48.00	82.00 47.00	79.00 46.00	83.00 44.00	
AT OUTFALL, SUMMER - WINTER	96.00 73.00	104.00 66.00	99.00 66.00	98.00 70.00	96.00 56.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	632.00	19,000.00	19,000.00	19,000.00	8,700.00	
- WINTER	1,491.00	71,000.00	71,000.00	71,000.00	8,700.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP				.19	.80	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	70.35	175.16	222.93	316.96	.20	
LIME (TONS), COOLING WATER - BOILER MAKEUP		.50	44.65		56.78	
ALUM (TONS), COOLING WATER - BOILER MAKEUP			42.70			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	20.00	6.00	37.00	108.00	26.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST	ST	
RECEIVING WATER BODY	R MAHONING	R OHIO	R OHIO	R OHIO	R OHIO	
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	7.10	10.16		7.10	6.90	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING					45,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 250.00	5 544.00	7 315.75	6 1,680.50	3 712.50	
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS						
COOLING TOWERS						
COMBINATIONS [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1954	1944 1955	1925 1949	1959 1969	1958 1959	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00	15.00	8.00 14.00	16.70 19.90	12.20	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	312.00	809.30	790.92	1,793.50	1,016.10	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	312.00	809.30	790.92	1,793.50	1,070.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	554.60	4,736.40	346.70	9,375.00		
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	24.20	120.60	93.30	244.20	19.10	
COST OF CHEMICAL ADDITIVES ($1,000)	1.90	.60	8.10	14.40	2.50	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	6.10	32.60	16.10	53.60	4.60	
COST OF CHEMICAL ADDITIVES ($1,000)	5.80	23.60	24.00	101.30	5.60	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1 NAME OF UTILITY	OHIO POWER CO.	OHIO POWER CO.	OHIO POWER CO.	OHIO POWER CO.	OHIO VALLEY ELECTRIC COOP.		
4 NAME OF PLANT	MUSKINGUM	PHILO	TIDD	WOODCOCK	KYGER CREEK		
5 UTILITY-PLANT CODE	355000-0200	355000-0300	355000-0400	355000-0500	356000-0100		
6 STATE	OHIO	OHIO	OHIO	OHIO	OHIO		
7 COUNTY	MORGAN	MUSKINGUM	JEFFERSON	ALLEN	GALLIA		
8 AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	179 05	183 05	181 05	177 04	103 05		
9 PLANT CAPACITY (MW)	1,466.80	500.00	222.20	42.50	1,086.00		
10 ANNUAL GENERATION (MWH) 3/	7,922,300	1,392,775	1,166,100	83,200	6,904,100		
11 PLANT HEAT RATE (BTU/KWH) 3/	9,503	14,300	11,809	17,478	9,512		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	3,683.20	984.00	581.10	57.60	2,803.00		
13 AVERAGE HEAT CONTENT (BTU/LB)	10,169	10,229	11,761	12,100	11,408		
14 AVERAGE SULFUR CONTENT (%)	5.02	3.32	2.94	2.98	4.26		
15 AVERAGE ASH CONTENT (%)	20.33	17.27	13.49	14.67	14.76		
16 AVERAGE MOISTURE CONTENT (%)	7.09	9.85	6.05	7.26	7.06		
17 OIL: CONSUMPTION (1,000 BARRELS)							
18 AVERAGE HEAT CONTENT (BTU/GAL)							
19 AVERAGE SULFUR CONTENT (%)							
20 GAS: CONSUMPTION (1,000 MCF)							
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)							

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	5	13	3	5	5		
23 - NO. OF WET BOTTOM	4	1			5		
24 - NO. WITH FLY ASH REINJECTION							
25 - NO. WITH MECHANICAL PRECIPITATORS	2	6	3	1			
26 - NO. WITH ELECTROSTATIC PRECIPITATORS							
27 - NO. WITH COMBINATION PRECIPITATORS 4/	1				5		
28 - NO. WITH DESULFURIZATION SYSTEMS							
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	15.00 20.00	20.00	20.00	20.00	17.50		
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	80.00		85.00				
31 TESTED, LOW - HIGH							
32 ESTIMATED, LOW - HIGH	80.00 84.00 86.00	30.00 73.00		65.00	96.10		
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	96.60						
34 TESTED, LOW - HIGH	80.00						
35 EST., LOW - HIGH					96.10		
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37 TESTED, LOW - HIGH							
38 ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	102.40	36.91	31.33	5.94	10.49		
40 SULFUR OIOXIOE (1,000 TONS)	362.40	64.03	33.48	3.36	234.04		
41 NITROGEN OXIOES (1,000 TONS)	60.71	11.79	5.23	.52	42.05		
42 STACKS: - TOTAL NO.	4	5	3	2	3		
43 - HEIGHT (FEET), LOWEST - HIGHEST 8/	298.00 825.00	90.00 142.00	247.00	165.00	538.00		
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/							
45 TOTAL ASH: COLLECTED (1,000 TONS) 10/	770.00	199.00	50.80		413.40		
46 SOLD (1,000 TONS) 11/	19.00	54.00			231.40		
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
51 ELECTROSTATIC PRECIPITATORS ($1,000)							
52 COMBINATION PRECIPITATORS ($1,000) 4/	1,885.00				2,675.00		
53 DESULFURIZATION SYSTEMS ($1,000)							
54 STACKS ($1,000)	1,421.00				2,211.00		
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	316.20	123.50	34.60		480.00		
56 REVENUES FROM SALE OF ASH ($1,000)					81.00		
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	316.20	123.50	34.60		480.00		
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)					81.00		

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, R, C, W, M & O EXPL. IN FOOTNOTES)	R MUSKINGUM	R MUSKINGUM	R OHIO	O NATL. QUARRY	R OHIU		
62 AVERAGE RATE OF WITHDRAWAL (CFS)	979.20	789.10	401.00	385.00	1,740.00		
63 AVERAGE RATE OF DISCHARGE (CFS)	969.20	781.40	401.00	385.00	1,740.00		
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	8.42 10.00	6.79 7.70	3.45		14.96		
65 PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC	AUG DEC	AUG DEC	AUG DEC	MAY MAR		
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 41.00	79.00 42.00	84.00 43.00	86.00 60.00	76.00 47.00		
67 AT OUTFALL, SUMMER - WINTER	95.00 60.00	84.00 45.00	96.00 53.50	98.00 73.00	88.10 59.80		
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	7,282.00	5,527.00	21,150.00				
69 - WINTER	7,282.00	5,527.00	47,200.00				
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/							
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.20	2.00	.04				
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	45.00	.50	5.00				
73 LIME (TONS), COOLING WATER - BOILER MAKEUP	2.50						
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP							
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	60.00 5.50	31.00	7.70 .30		120.00		
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES	YES	YES	YES YES		
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	OT	OT		PS	OT		
78 RECEIVING WATER BODY	R MUSKINGUM	R MUSKINGUM			R OHIO		
79 POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	6.00	7.00	8.50	7.80 7.80	7.40		
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	25.00	30.00	20.00				
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		68,000.00		144.65			
82 - ASH SETTLING	330,000.00	165,000.00	4,900.00	2,000.00	269.83		

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING 20: ONCE THROUGH COOLING (FRESH)	4 914.40	5 444.00	2 222.20		5 1,086.30		
84 ONCE THROUGH COOLING (SALINE)							
85 COOLING PONO(S)				5 37.50			
86 COOLING TOWER(S)	1 590.80						
87 COMBINATION 21/							
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1968	1924 1957	1945 1948	1938 1950	1955		
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	12.20 22.60	10.40 13.10	13.00	11.80	12.00		
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,753.50	554.10	423.40	75.80	1,693.50		
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)	1,365.00	985.00	424.00		1,693.50		

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)					2,880.00		
93 COOLING PONDS ($1,000)							
94 COOLING TOWERS ($1,000)	3,435.00						

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	50.70	43.30	9.40		154.00		
96 COST OF CHEMICAL ADDITIVES ($1,000)	35.00	3.00	1.10		12.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.40	8.10	1.70		42.00		
98 COST OF CHEMICAL ADDITIVES ($1,000)	10.00	103.30	1.60	5.50	5.00		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	OKLAHOMA GAS & ELECTRIC CO.		OKLAHOMA GAS & ELECTRIC CO.		OKLAHOMA GAS & ELECTRIC CO.		OKLAHOMA GAS & ELECTRIC CO.		OKLAHOMA GAS & ELECTRIC CO.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	ARBUCKLE		BELLE ISLE		HORSESHOE LAKE		MUSTANG		OSAGE		4
5	UTILITY-PLANT CODE	5	356500-0100		356500-0200		356500-0500		356500-0600		356500-0700		5
6	STATE	6	OKLAHOMA		OKLAHOMA		OKLAHOMA		OKLAHOMA		OKLAHOMA		6
7	COUNTY	7	MURRAY		OKLAHOMA		OKLAHOMA		CANADIAN		KAY		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	188 11		184 11		184 11		184 11		185 11		8
9	PLANT CAPACITY (MW)	9	73.50		55.00		916.23		509.26		40.00		9
10	ANNUAL GENERATION (MWH) [3]	10	325,100		103,700		5,368,100		3,215,700		80,500		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	12,265		16,678		10,580		10,687		15,640		11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12							.71		.26		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13							12,971		11,200		13
14	AVERAGE SULFUR CONTENT (%)	14							1.30		2.10		14
15	AVERAGE ASH CONTENT (%)	15							10.00		11.00		15
16	AVERAGE MOISTURE CONTENT (%)	16							10.50		9.10		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17			2.55		19.70		.20				17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18			145,504		147,436		140,969				18
19	AVERAGE SULFUR CONTENT (%)	19							.10				19
20	GAS: CONSUMPTION (1,000 MCF)	20	3,843.90		1,621.50		55,102.10		33,123.00		1,186.50		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,037		1,055		1,028		1,037		1,055		21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	1		3		9		4		3		22
23	- NO. OF WET BOTTOM	23					1		2		2		23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25											25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26											26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27											27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	5.00		10.00	7.00	16.00	7.00	16.00	7.00	15.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30											30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32											32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33											33
34	TESTED, LOW - HIGH	34											34
35	EST., LOW - HIGH	35											35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39							.05		.02		39
40	SULFUR OIOXIDE (1,000 TONS)	40							.02		.01		40
41	NITROGEN OXIDES (1,000 TONS)	41	.75		.29		10.79		6.47		.24		41
42	STACKS: - TOTAL NO.	42	1		1		8		4		2		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	140.00		275.50	168.00	189.00	167.00	250.00		154.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45											45
46	SOLD (1,000 TONS) [11]	46											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50											50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51											51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52											52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	16.70		18.00		332.20		277.50		24.30		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55											55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59											59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60											60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	W		OW LOCAL RUNOFF		R NORTH CANADIAN		M		R ARKANSAS		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1.20		.52		29.00		9.98		84.30		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	.24				11.10		2.85		84.30		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	.96		.52		17.90		7.13	.72			64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	AUG OEC		AUG OEC		AUG OEC		AUG OEC		AUG OEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66							92.00 82.00		95.00 61.00		66
67	AT OUTFALL, SUMMER - WINTER	67	88.00 80.00		98.00 73.00		114.00 85.00		92.00 82.00		112.00 69.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68											68
69	- WINTER	69											69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71											71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.10				94.34		13.16				72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73											73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	.80		2.00								74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	13.15 .23				15.13		9.60				75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES		YES		YES YES		YES YES				76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	ST		ST		ST		ST		ST		77
78	RECEIVING WATER BODY	78											78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	79											79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80											80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81											81
82	- ASH SETTLING	82											82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83									2 40.00		83
84	ONCE THROUGH COOLING (SALINE)	84											84
85	COOLING POND(S)	85											85
86	COOLING TOWER(S)	86	1 73.50			1	442.80	4	509.30				86
87	COMBINATION [21]	87		2	55.00	3	473.43						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1953		1930	1924	1969	1950	1959	1929	1948		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	17.00		15.00	13.00	19.00	15.50	22.50	12.30	15.80		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	134.00		141.20		1,314.80		583.60		91.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91									91.00		91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92									69.50		92
93	COOLING PONDS ($1,000)	93			179.40		2,117.00						93
94	COOLING TOWERS ($1,000)	94	740.00		66.40		1,926.00		4,125.60				94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	8.10				24.40		21.10				95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	13.60				50.60		79.00				96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	5.60				17.10		5.80				97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	.60				14.10		2.30				98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	OKLAHOMA GAS & ELECTRIC CO.	OMAHA PUBLIC POWER DIST.	OMAHA PUBLIC POWER DIST.	ORANGE & ROCKLAND UTIL. INC.	ORLANDO UTILITIES COMM.	
NAME OF PLANT	RIVERBANK	JONES STREET	NORTH OMAHA	LOVETT	INDIAN RIVER	
UTILITY-PLANT CODE	356500-0800	357000-0100	357000-0200	359000-0200	361000-0100	
STATE	OKLAHOMA	NEBRASKA	NEBRASKA	NEW YORK	FLORIDA	
COUNTY	MUSKOGEE	DOUGLAS	DOUGLAS	ROCKLAND	BREVARD	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	186 11	085 10	085 10	043 02	048 03	
PLANT CAPACITY (MW)	195.90	173.50	644.70	495.12	258.50	
ANNUAL GENERATION (MWH) 3/	1,197,800	80,300	3,277,700	2,762,700	1,278,600	
PLANT HEAT RATE (BTU/KWH) 3/	10,603	16,263	9,975	10,696	10,347	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)		31.60	630.90	124.03		
AVERAGE HEAT CONTENT (BTU/LB)		11,231	12,301	13,036		
AVERAGE SULFUR CONTENT (%)		2.23	3.00	1.25		
AVERAGE ASH CONTENT (%)		10.01	11.47	9.50		
AVERAGE MOISTURE CONTENT (%)		10.82	7.55	5.00		
OIL: CONSUMPTION (1,000 BARRELS)	.04			2,234.55	533.30	
AVERAGE HEAT CONTENT (BTU/GAL)	140,492			147,293	149,942	
AVERAGE SULFUR CONTENT (%)	.10			1.00	1.72	
GAS: CONSUMPTION (1,000 MCF)	12,247.30	636.42	17,400.74	12,056.75	9,626.70	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,037	1,004	1,003	1,038	1,026	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	7		8		5		5		2	
- NO. OF WET BOTTOM										
- NO. WITH ELY ASH REINJECTION										
- NO. WITH MECHANICAL PRECIPITATORS			3				3			
- NO. WITH ELECTROSTATIC PRECIPITATORS					2		2			
- NO. WITH COMBINATION PRECIPITATORS 4/					3					
- NO. WITH DESULFURIZATION SYSTEMS										
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	7.00 20.00	25.00 40.00	20.00 25.00		20.00 25.00		8.75 12.00			
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00			85.00					
TESTED, LOW - HIGH										
ESTIMATED, LOW - HIGH		85.00			85.00					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH			96.00 98.00		95.00					
TESTED, LOW - HIGH			95.60 96.10							
EST., LOW - HIGH			96.00 98.00		92.00					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH										
TESTED, LOW - HIGH										
ESTIMATED, LOW - HIGH					92.00					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)			1.07		2.11		.87		.09	
SULFUR DIOXIDE (1,000 TONS)			1.38		37.10		10.53		3.08	
NITROGEN OXIDES (1,000 TONS)		2.39	.36		9.07		8.39		3.05	
STACKS: - TOTAL NO.		3	5		5		5		1	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	176.00 268.00	147.00 250.00	20..00		175.00 235.00				300.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/									.04	
TOTAL ASH: COLLECTED (1,000 TONS) 10/		2.59	70.30		33.20					
SOLD (1,000 TONS) 11/										
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)										
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/										
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)										
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			148.50				139.12			
ELECTROSTATIC PRECIPITATORS ($1,000)					647.00		634.92			
COMBINATION PRECIPITATORS ($1,000) 4/					776.00					
DESULFURIZATION SYSTEMS ($1,000)										
STACKS ($1,000)		187.10	210.90		494.90		278.78		140.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			19.91		93.01		59.09			
REVENUES FROM SALE OF ASH ($1,000)										
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)										
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)										
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/			19.91		83.01		59.09			
TOTAL BYPRODUCT SALES REVENUES ($1,000)										

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES: R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ARKANSAS		R MISSOURI		R MISSOURI		R HUDSON		R INDIAN	
AVERAGE RATE OF WITHDRAWAL (CFS)		175.50		27.00		663.00		735.00		520.00
AVERAGE RATE OF DISCHARGE (CFS)		175.50		27.00		663.00		735.00		520.00
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	1.51		.23		5.70		6.32		4.47	
PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG	OEC	JUN	OEC	JUN	OEC	SEP	OEC	AUG	JAN
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00	59.00	79.50	41.90	79.50	41.90			86.00	62.00
AT OUTFALL, SUMMER - WINTER	114.00	80.00	97.40	59.30	97.40	59.30			95.00	70.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		3,464.00		37,950.00		37,950.00		35,700.00		
- WINTER				23,240.00		23,240.00		35,700.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, L 16/										
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP				.45		.68		.82		.09
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		10.59		43.41		37.57		.25		9.41
LIME (TONS), COOLING WATER - BOILER MAKEUP										
ALUM (TONS), COOLING WATER - BOILER MAKEUP										
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP							1.50			.66
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/		YES		YES		YES		YES	YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	OT/SW		PS		PS		OT		ST	
RECEIVING WATER BODY	R ARKANSAS						R HUDSON			
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING					9.00	10.00		6.70		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					50.00	100.00		12.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						424.80				
- ASH SETTLING						56,032.70				

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	3 195.90	7 173.50	5 644.70							
ONCE THROUGH COOLING (SALINE)					5 481.82		2 258.50			
COOLING POND(S)										
COOLING TOWER(S)										
COMBINATION 5/										
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1924 1956	1917 1951	1954 1968		1949 1969		1960 1964			
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	12.00 20.20	12.00 15.40	16.00 17.50		12.00 15.50		9.58 10.88			
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	252.60	412.30	797.80		705.00		543.00			
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	258.70	412.30	841.30		734.00		543.00			

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,007.70	1,023.00	4,595.40	2,025.18	1,980.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)		88.80				

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.40	10.00	37.87		45.60	
COST OF CHEMICAL ADDITIVES ($1,000)				.48	8.10	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	3.60	9.80	20.56	58.36	11.40	
COST OF CHEMICAL ADDITIVES ($1,000)	1.50	10.70	26.50	1.78	1.50	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	ORLANDO UTILITIES COMM.	OTTER TAIL POWER CO.	OWENSBORO MUNICIPAL UTIL.	OWENSBORO MUNICIPAL UTIL.	PACIFIC GAS & ELECTRIC CO.		1
2								2
3								3
4	NAME OF PLANT	LAKE HIGHLAND	HOOT LAKE	SMITH	OWENSBORO #1	AVON		4
5	UTILITY-PLANT CODE	361000-0200	365500-1400	367000-0100	367000-0200	370000-0300		5
6	STATE	FLORIDA	MINNESOTA	KENTUCKY	KENTUCKY	CALIFORNIA		6
7	COUNTY	ORANGE	OTTER TAIL	DAVIESS	DAVIESS	CONTRA COSTA		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	048 03	132 09	077 05	077 05	030 18		8
9	PLANT CAPACITY (MW)	96.00	136.90	151.00	52.50	40.00		9
10	ANNUAL GENERATION (MWH) [3]	203,100	842,400	1,062,900	114,800	293,900		10
11	PLANT HEAT RATE (BTU/KWH) [3]	14,059	11,876	10,334	15,022	19,033		11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)		703.52	462.00	77.90			12
13	AVERAGE HEAT CONTENT (BTU/LB)		7,114	11,089	11,093			13
14	AVERAGE SULFUR CONTENT (%)		.75	3.14	3.14			14
15	AVERAGE ASH CONTENT (%)		6.17	10.32	10.33			15
16	AVERAGE MOISTURE CONTENT (%)		34.77	11.57	11.52			16
17	OIL: CONSUMPTION (1,000 BARRELS)	61.20	1.22			691.66		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	149,886	140,000			154,574		18
19	AVERAGE SULFUR CONTENT (%)	1.66	.35			1.33		19
20	GAS: CONSUMPTION (1,000 MCF)	2,411.20				1,005.64		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,026				1,057		21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	4	3	1	4	3		22
23	- NO. OF WET BOTTOM			1				23
24	- NO. WITH FLY ASH REINJECTION			1				24
25	- NO. WITH MECHANICAL PRECIPITATORS		3					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			1				26
27	- NO. WITH COMBINATION PRECIPITATORS [4]				4			27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	14.00 26.40	17.00 40.00	16.00	20.00 22.00	10.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		72.00 85.00					30
31	TESTED, LOW - HIGH		14.20 62.70					31
32	ESTIMATED, LOW - HIGH							32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH			97.00	98.00 98.50			33
34	TESTED, LOW - HIGH			97.40				34
35	EST., LOW - HIGH			97.00	70.00 90.00			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.01	15.50	.16	1.67	.12		39
40	SULFUR DIOXIDE (1,000 TONS)	.34	10.34	28.43	4.79	3.09		40
41	NITROGEN OXIDES (1,000 TONS)	.60	6.30	12.71	.70	1.72		41
42	STACKS: - TOTAL NO.	4	2	1	2	3		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	101.50	133.00 225.00	300.00	152.00	200.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]		36.00	46.20	8.00			45
46	SOLD (1,000 TONS) [11]		3.46					46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		142.70					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)			610.00				51
52	COMBINATION PRECIPITATORS ($1,000) [4]				249.00			52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	1,060.00	133.70		103.10	558.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		25.40	27.74	22.00			55
56	REVENUES FROM SALE OF ASH ($1,000)		9.90					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		25.40	27.74	22.00			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		9.90					60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, R, C, W, M & O EXPL. IN FOOTNOTES)	O SPRINGS/RUNOFF	R OTTER TAIL	R OHIO	R OHIO	8 SUISUN		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	106.20	79.59	162.80	80.30	.72		62
63	AVERAGE RATE OF DISCHARGE (CFS)	106.20	79.37	162.80	80.30	.11		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.91	.27	1.40	.69	.61		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL JAN	JUL DEC	AUG DEC	AUG DEC			65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	89.00 64.00	83.00 37.00	85.00 54.00	85.00 54.00			66
67	AT OUTFALL, SUMMER - WINTER	105.00 75.00	106.00 86.00	105.00 91.00	105.00 80.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		379.20	66,000.00	66,000.00			68
69	- WINTER		90.20	163,000.00	163,000.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.26	.18	.04	.04	1.50		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.04	31.28	.03	.03	.05 1.35		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	4.00				80.00		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	.50						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	18.00 .60		.90				75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES YES	YES	YES	YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, S+, OT [18]	PS ST	ST	PS	ST			77
78	RECEIVING WATER BODY							78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	10.80		10.00 7.00				79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	150.00		25.00 10.00				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	4,720.00		371.00				81
82	- ASH SETTLING			8,670.00				82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	3 103.75		1 151.00	4 52.50			83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING POND(S)							85
86	COOLING TOWER(S)					1 40.00		86
87	COMBINATION [21]		3 136.90					87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949 1956	1948 1964	1963	1939 1954	1940		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00 15.70	12.00 22.00	20.00	15.00	15.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	180.50	179.80	181.00	93.90	43.60		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	180.50	180.00	185.00	120.00			91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,250.00	911.00	768.00	296.00			92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)		542.00			160.00		94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	50.00	3.38	10.00	10.00			95
96	COST OF CHEMICAL ADDITIVES ($1,000)	2.20	2.58	.37		14.90		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.50	12.47	12.00	10.00			97
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.50	6.43	.38		15.80		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	1
2							2
3							3
4	NAME OF PLANT	CONTRA COSTA	HUMBOLOT BAY	HUNTERS POINT	KERN	MARTINEZ	4
5	UTILITY-PLANT CODE	370000-1400	370000-3100	370000-3200	370000-3600	370000-4100	5
6	STATE	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	6
7	COUNTY	CONTRA COSTA	HUMBOLOT	SAN FRANCISCO	KERN	CONTRA COSTA	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	030 18	026 18	030 18	031 18	030 18	8
9	PLANT CAPACITY (MW)	1,276.10	162.40	406.40	165.50	40.00	9
10	ANNUAL GENERATION (MWH) [3]	2,493,600	174,400	1,608,800		371,500	10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,121	14,682	11,306		17,901	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)						12
13	AVERAGE HEAT CONTENT (BTU/LB)						13
14	AVERAGE SULFUR CONTENT (%)						14
15	AVERAGE ASH CONTENT (%)						15
16	AVERAGE MOISTURE CONTENT (%)						16
17	OIL: CONSUMPTION (1,000 BARRELS)	100.17		14.60		542.26	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	152,100		154,614		156,903	18
19	AVERAGE SULFUR CONTENT (%)	1.10		1.00		1.15	19
20	GAS: CONSUMPTION (1,000 MCF)	25,760.65	2,534.64	17,182.75	68.56	3,291.55	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,054	1,010	1,053	1,094	1,056	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	10	3	7	4	3	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						26
27	- NO. WITH COMBINATION PRECIPITATORS [4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	5.10 15.00	15.00	11.50 15.00	15.00	10.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH						33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.02				.09	39
40	SULFUR DIOXIDE (1,000 TONS)	.37		.05		2.09	40
41	NITROGEN OXIDES (1,000 TONS)	5.24	.49	3.38	.01	1.84	41
42	STACKS: - TOTAL NO.	9	3	5	4	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	200.00 450.00	120.00 250.00	150.00 250.00	140.00	200.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]						45
46	SOLD (1,000 TONS) [11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000) [4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	4,928.00	498.00	1,597.00	684.00	162.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]						59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SAN JOAQUIN	B HUMBOLOT	B SAN FRANCISCO	W	B SUISUN	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,526.00	224.00	582.00		.72	62
63	AVERAGE RATE OF DISCHARGE (CFS)	1,526.00	224.00	582.00		.11	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	13.12	1.93	5.01		.61	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG OEC	AUG OEC	AUG OEC			65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	76.00 51.00	54.00 52.00	64.00 58.00			66
67	AT OUTFALL, SUMMER - WINTER	92.00 67.00	69.00 67.00	74.00 68.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	125,000.00					68
69	- WINTER	125,000.00					69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT [16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.15	.12	1.22	.03	6.50	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.50	.11	.15 1.32	.05	.25 8.33	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	1.10				120.00	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	17.00		55.00	.50		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES	YES YES	YES YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	PS	ST	ST	77
78	RECEIVING WATER BODY [18]						78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING [19]: ONCE THROUGH COOLING (FRESH)						83
84	ONCE THROUGH COOLING (SALINE)	7 1,276.00	3 162.40	4 406.50			84
85	COOLING PONDS						85
86	COOLING TOWERS				2 165.50	1 40.00	86
87	COMBINATIONS [21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1951 1964	1955 1961	1928 1959	1947 1948	1941	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	16.00 25.00	15.00 22.90	15.50		15.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,434.20	224.00	709.00	179.00	43.60	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,434.20	224.00	582.00			91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	3,391.00	1,539.00	2,365.00			92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)				1,114.00	165.00	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)						95
96	COST OF CHEMICAL ADDITIVES ($1,000)	1.80		5.80	.30	7.90	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)						97
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.30	.10	.90		18.50	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	PACIFIC GAS & ELECTRIC CO.		PACIFIC GAS & ELECTRIC CO.		PACIFIC GAS & ELECTRIC CO.		PACIFIC GAS & ELECTRIC CO.		PACIFIC GAS & ELECTRIC CO.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	MORRO BAY		MOSS LANDING		OLEUM		PITTSBURG		POTRERO		4
5	UTILITY-PLANT CODE	5	370000-4400		370000-4500		370000-4900		370000-5700		370000-5900		5
6	STATE	6	CALIFORNIA		CALIFORNIA		CALIFORNIA		CALIFORNIA		CALIFORNIA		6
7	COUNTY	7	SAN LUIS OBISPO		MONTEREY		CONTRA COSTA		CONTRA COSTA		SAN FRANCISCO		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	032 18		025 18		030 18		030 18		030 18		8
9	PLANT CAPACITY (MW)	9	1,056.30		2,174.70		80.00		1,277.80		317.90		9
10	ANNUAL GENERATION (MWH) [3]	10	3,883,300		8,967,900		303,600		4,318,400		1,588,200		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	9,740		9,138		21,143		10,243		10,818		11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12											12
13	AVERAGE HEAT CONTENT (BTU/LB)	13											13
14	AVERAGE SULFUR CONTENT (%)	14											14
15	AVERAGE ASH CONTENT (%)	15											15
16	AVERAGE MOISTURE CONTENT (%)	16											16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	13.66		30.21		600.10		186.01		9.89		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	152,833		152,904		156,651		153,085		154,357		18
19	AVERAGE SULFUR CONTENT (%)	19	1.50		1.40		1.15		1.39		1.00		19
20	GAS: CONSUMPTION (1,000 MCF)	20	34,628.49		75,358.56		2,406.85		40,774.42		16,235.05		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,089		1,086		1,053		1,056		1,054		21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	4		10		6		6		4		22
23	- NO. OF WET BOTTOM	23											23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25											25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26											26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27											27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	10.00 15.00		7.00 11.00		10.00		8.00 12.00		8.00 15.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30											30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32											32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33											33
34	TESTED, LOW - HIGH	34											34
35	EST., LOW - HIGH	35											35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39			.01		.10		.03				39
40	SULFUR DIOXIDE (1,000 TONS)	40	.07		.14		2.32		.87		.03		40
41	NITROGEN OXIDES (1,000 TONS)	41	6.78		14.76		1.79		8.36		3.19		41
42	STACKS: - TOTAL NO.	42	3		10		6		6		2		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	450.00	224.50	500.00		250.00	212.00	450.00	200.00	300.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45											45
46	SOLD (1,000 TONS) [11]	46											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50											50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51											51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52											52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	4,108.00		8,060.00		432.00		4,106.00		795.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55											55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59											59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60											60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	B MORRO		B MONTEREY		B SAN FRANCISCO		B SUISUN		B SAN FRANCISCO		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,118.00		1,178.00		89.10		1,616.00		544.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,118.00		1,178.00		89.10		1,616.00		544.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	9.61		10.13		.77		13.90		4.68		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	AUG OEC		AUG OEC		AUG OEC		AUG OEC		AUG OEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	57.00 57.00		64.00 58.00		68.00 54.00		75.00 55.00		62.00 61.00		66
67	AT OUTFALL, SUMMER - WINTER	67	68.00 68.00		74.00 68.00		80.00 66.00				77.00 76.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68							170,000.00				68
69	- WINTER	69							170,000.00				69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	.95		.40		29.50		1.81		.92		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.03 .43		312.67		13.90		1.41	.01	14.65		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73			25.50				27.15				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	4.50		34.00				27.00		27.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES YES		YES YES		YES YES		YES YES		YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	ST		ST		ST		PS		PS		77
78	RECEIVING WATER BODY	78											78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	79											79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80											80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81											81
82	- ASH SETTLING	82											82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83							6 1,278.00				83
84	ONCE THROUGH COOLING (SALINE)	84	4 1,056.20		7 2,174.70		2 80.00				3 317.90		84
85	COOLING POND(S)	85											85
86	COOLING TOWER(S)	86											86
87	COMBINATION [21]	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1955 1963		1950 1968		1941 1943		1954 1961		1931 1964		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	14.50 18.10		13.70 23.80		15.00	15.00	17.50		15.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,118.00		1,849.00		87.20		1,582.80		465.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	1,120.00		978.00		89.10		474.40		323.60		91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	5,986.00		12,913.00		449.00		3,342.00		1,683.00		92
93	COOLING PONDS ($1,000)	93											93
94	COOLING TOWERS ($1,000)	94											94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95											95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	.50		3.80		4.30		3.00		2.80		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97											97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	2.40		92.10		20.50		4.20		5.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	PACIFIC GAS & ELECTRIC CO.	PACIFIC POWER & LIGHT CO.	PACIFIC POWER & LIGHT CO.	PAINESVILLE ELECTRIC LT. DEPT	PASADENA LIGHT & POWER DEPT.	1
2							2
3							3
4	NAME OF PLANT	GEYSERS	JOHNSTON	LINCOLN	PAINESVILLE	BROADWAY	4
5	UTILITY-PLANT CODE	370000-7200	370500-1200	370500-2300	371000-0100	374500-0100	5
6	STATE	CALIFORNIA	WYOMING	OREGON	OHIO	CALIFORNIA	6
7	COUNTY	SONOMA	CONVERSE	MULTNOMAH	LAKE	LOS ANGELES	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	030 18	241 10	193 17	174 04	024 18	8
9	PLANT CAPACITY (MW)	84.20	456.70	37.50	38.00	171.00	9
10	ANNUAL GENERATION (MWH) 3/	525,200	2,663,100		109,700	657,400	10
11	PLANT HEAT RATE (BTU/KWH) 3/		10,568		16,846	11,052	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		1,852.40			70.10				12
13	AVERAGE HEAT CONTENT (BTU/LB)		7,588			12,800				13
14	AVERAGE SULFUR CONTENT (%)		.55			2.46				14
15	AVERAGE ASH CONTENT (%)		8.59			6.35				15
16	AVERAGE MOISTURE CONTENT (%)		28.43			5.10				16
17	OIL: CONSUMPTION (1,000 BARRELS)		3.90	74.50				330.00		17
18	AVERAGE HEAT CONTENT (BTU/GAL)		146,000	150,600				150,500		18
19	AVERAGE SULFUR CONTENT (%)		.30	1.70				.31		19
20	GAS: CONSUMPTION (1,000 MCF)			1,467.40				5,008.00		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,046				1,060		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.		3	7		4		3		22
23	- NO. OF WET BOTTOM									23
24	- NO. WITH FLY ASH REINJECTION					2				24
25	- NO. WITH MECHANICAL PRECIPITATORS		3			2		3		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS									26
27	- NO. WITH COMBINATION PRECIPITATORS 4/									27
28	- NO. WITH DESULFURIZATION SYSTEMS									28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/		20.00	10.00 15.00	30.00	40.00	8.00	10.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		82.00 86.00			94.30	92.00	94.00		30
31	TESTED, LOW - HIGH		82.40					37.00		31
32	ESTIMATED, LOW - HIGH		70.00			94.30		50.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH									33
34	TESTED, LOW - HIGH									34
35	EST., LOW - HIGH									35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH									36
37	TESTED, LOW - HIGH									37
38	ESTIMATED, LOW - HIGH									38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)		29.29	.01		.55		.03		39
40	SULFUR DIOXIDE (1,000 TONS)		19.97	.42		3.38		.34		40
41	NITROGEN OXIDES (1,000 TONS)		16.68	.45		.53		1.70		41
42	STACKS: - TOTAL NO.		3	6		1		4		42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/		250.00	69.00 88.00		250.00	120.00	140.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/									44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/		122.20			5.70				45
46	SOLD (1,000 TONS) 11/		7.50							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)									47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/									48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)									49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		344.00			120.00		221.00		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)									51
52	COMBINATION PRECIPITATORS ($1,000) 4/									52
53	DESULFURIZATION SYSTEMS ($1,000)									53
54	STACKS ($1,000)		391.00	41.40		70.00		105.70		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		58.00			5.70				55
56	REVENUES FROM SALE OF ASH ($1,000)		22.10							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)									57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)									58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/		58.00			5.70				59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		22.10							60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	R NORTH PLATTE	R WILLAMETTE	M		M			61
62	AVERAGE RATE OF WITHDRAWAL (CFS)		301.90	93.60	1.00		2.27			62
63	AVERAGE RATE OF DISCHARGE (CFS)		301.70	93.60	.02		.45			63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/		2.60 3.80	.80			1.82			64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/		SEP OEC	AUG OEC						65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		73.00 59.00	72.00 52.00						66
67	AT OUTFALL, SUMMER - WINTER		103.00 88.00	78.00 57.00						67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		952.00	7,000.00						68
69	- WINTER		1,030.00							69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CT 16/									70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.11	2.15	.05		12.65 .59			71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.08	5.95	.01		3.86			72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				3.50					73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP									74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		20.00				17.03			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/		YES	YES	YES	YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, CT 18/	ST	ST	PS			PS			77
78	RECEIVING WATER BODY									78
79	POND DISCHARGE: 19/ PH; BOILER BLOWDOWN - ASH SETTLING		8.70		10.00					79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		10.00		1,000.00					80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				400.00					81
82	- ASH SETTLING		94,600.00							82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)		3 456.70	3 35.50						83
84	ONCE THROUGH COOLING (SALINE)									84
85	COOLING PONDS(S)									85
86	COOLING TOWERS(S)	4 84.20			4 35.50		3 171.00			86
87	COMBINATIONS 21/									87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1959 1967	1959 1964	1919 1930	1954 1965		1954 1965			88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	38.00 39.80	27.30 32.30	9.50 13.50	10.00		15.80 21.80			89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	166.60	318.00	180.20	83.00		209.00			90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		318.00	180.20						91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		3,232.00	322.00						92
93	COOLING PONDS ($1,000)									93
94	COOLING TOWERS ($1,000)	1,533.00					662.00			94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		58.90	7.60	5.00		13.00			95
96	COST OF CHEMICAL ADDITIVES ($1,000)		7.40		4.00		13.20			96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		24.50	5.22	3.00		33.60			97
98	COST OF CHEMICAL ADDITIVES ($1,000)		14.90	5.15	4.00		6.80			98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	PASADENA LIGHT & POWER DEPT.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.		
4	NAME OF PLANT	GLENARM	FRONT STREET	HOMER CITY	KEYSTONE	SAXTON		
5	UTILITY-PLANT CODE	374500-0200	379500-0300	379500-0350	379500-0400	379500-0800		
6	STATE	CALIFORNIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA		
7	COUNTY	LOS ANGELES	ERIE	INDIANA	ARMSTRONG	BEDFORD		
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	024 18	178 04	197 05	197 05	195 02		
9	PLANT CAPACITY (MW)	65.25	119.00	1,025.00	1,640.00	40.00		
10	ANNUAL GENERATION (MWH) [3]	26,400	574,500	4,844,400	5,891,100	89,500		
11	PLANT HEAT RATE (BTU/KWH) [3]	19,297	14,638	10,263	9,918	28,751		
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)		348.10	2,138.60	2,407.48	109.20		12
13	AVERAGE HEAT CONTENT (BTU/LB)		11,869	11,476	12,040	11,913		13
14	AVERAGE SULFUR CONTENT (%)		4.82	2.36	2.09	1.98		14
15	AVERAGE ASH CONTENT (%)		16.06	19.95	17.24	16.91		15
16	AVERAGE MOISTURE CONTENT (%)		3.39	4.30	3.37	5.12		16
17	OIL: CONSUMPTION (1,000 BARRELS)	20.00	24.05	147.14	79.63			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	150,500	138,800	138,800	138,800			18
19	AVERAGE SULFUR CONTENT (%)	.31	.20	.20	.20			19
20	GAS: CONSUMPTION (1,000 MCF)	299.00						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,060						21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	4	4	2	2	7		22
23	- NO. OF WET BOTTOM				2			23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS	4						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		4	2	2			26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	12.00 15.00	15.00 15.50	20.00	20.00			29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	94.00						30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH	50.00						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH			99.50	99.50			33
34	TESTED, LOW - HIGH							34
35	EST., LOW - HIGH		80.00 90.00	94.50	99.50			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)		5.97	19.95	1.35	11.74		39
40	SULFUR DIOXIDE (1,000 TONS)	.02	33.08	99.02	98.67	4.14		40
41	NITROGEN OXIDES (1,000 TONS)	.10	3.20	19.57	36.29	.80		41
42	STACKS: - TOTAL NO.	4	2	2	2	4		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	81.00 86.00	135.00 200.00	800.00	801.00	125.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]		57.10	423.90	412.60	15.00		45
46	SOLD (1,000 TONS) [11]			.60	51.20			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	140.00						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		431.20	1,882.00	4,531.00			51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	12.00	51.88	2,372.00	2,622.00	21.30		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		98.40	353.60	682.90	27.80		55
56	REVENUES FROM SALE OF ASH ($1,000)			.30	55.00			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		98.60	374.30	863.30	27.80		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			.30	55.00			60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	L ERIE	C TWO LICK	C CROOKED	R PSTN BR JUNIAT		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	.08	223.00	15.40	18.20	135.90		62
63	AVERAGE RATE OF DISCHARGE (CFS)	.02	223.00	6.60	7.30	135.90		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.06	1.92	8.80	10.90			64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]		SEP OEC	SEP OEC	SEP DEC	SEP OEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		79.00 52.00	68.00 35.60		75.00 38.00		66
67	AT OUTFALL, SUMMER - WINTER		100.00 82.00	110.00 95.00		89.00 52.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			50.00	255.00	427.00		68
69	- WINTER			300.00	1,090.00	545.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, D, C [16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.00 .03	1.65			6.40		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.22		1,010.44	59.00 349.15	3.40		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			1,322.34	866.85 15.95	3.38		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		12.50	1,012.86	45.00			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.97	1.80	2.00		.15		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES YES	YES YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	PS	OT	ST	ST		77
78	RECEIVING WATER BODY [19]			C TWO LICK				78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING							79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82	- ASH SETTLING							82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		5 124.00					83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING PONDS							85
86	COOLING TOWERS	2 65.25		2 1,320.00	2 1,640.00			86
87	COMBINATIONS [21]					2 47.80		87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948	1927 1955	1969	1967 1968	1923 1926		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	10.00	20.00	28.00	27.40	16.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	140.00	223.00	1,590.00	1,100.00	135.90		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		223.00			135.90		91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)		546.63					92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)	161.00		4,954.00	12,278.00			94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	4.00	11.50	150.20	322.30	5.30		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	1.30	1.40	108.00	26.00	.10		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.20	23.70	75.00	29.00	9.50		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	.39	46.80	162.00	59.00	4.00		98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	
4	NAME OF PLANT	SEWARD	SHAWVILLE	WARREN	WILLIAMSBURG	CONEMAUGH	
5	UTILITY-PLANT CODE	379500-1000	379500-1100	379500-1200	379500-1400	379500-1500	
6	STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	
7	COUNTY	INDIANA	CLEARFIELD	WARREN	BLAIR	INDIANA	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	197 05	178 02	178 05	195 02	197 05	
9	PLANT CAPACITY (MW)	212.00	628.00	73.00	39.00	820.00	
10	ANNUAL GENERATION (MWH) [3]	1,295,843	1,295,800	446,800	167,300	3,267,800	
11	PLANT HEAT RATE (BTU/KWH) [3]	11,146	10,072	12,831	15,315	9,355	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	579.20	1,727.60	238.60	108.20	1,270.22	
13	AVERAGE HEAT CONTENT (BTU/LB)	12,047	12,550	11,999	11,835	11,823	
14	AVERAGE SULFUR CONTENT (%)	3.33	2.76	5.64	2.70	2.87	
15	AVERAGE ASH CONTENT (%)	17.94	12.45	14.45	16.86	19.78	
16	AVERAGE MOISTURE CONTENT (%)	3.82	5.50	4.90	5.34	3.55	
17	OIL: CONSUMPTION (1,000 BARRELS)	84.80	43.02	1.24	1.49	84.75	
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,800	138,800	138,800	138,800	138,800	
19	AVERAGE SULFUR CONTENT (%)	.20	.20	.20	.20	.20	
20	GAS: CONSUMPTION (1,000 MCF)						
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	4	4	7	1	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			4		1	
27	- NO. WITH COMBINATION PRECIPITATORS [4]	3	4				
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	22.00 30.00	15.00	15.00	15.00 25.00	20.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				78.00		
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH				78.00		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	99.30	98.00	94.00		99.50	
34	TESTED, LOW - HIGH	97.80 98.40					
35	EST., LOW - HIGH	97.00 98.00	96.00 98.00	95.00		95.00	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	1.95	5.14	1.49	5.12	10.68	
40	SULFUR OXIDE (1,000 TONS)	37.99	92.71	26.75	5.75	71.51	
41	NITROGEN OXIDES (1,000 TONS)	5.42	15.51	2.18	.95	11.62	
42	STACKS: - TOTAL NO.	3	3	1	3	1	
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	163.00 232.00	325.00 600.00	200.00	76.50 122.00	1,000.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	105.40	211.60	32.20	18.10	199.60	
46	SOLD (1,000 TONS) [11]		.70				
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				34.65		
51	ELECTROSTATIC PRECIPITATORS ($1,000)			204.76		1,687.00	
52	COMBINATION PRECIPITATORS ($1,000) [4]	1,461.00	2,156.00				
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	221.00	1,240.10	65.20	69.49	2,137.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	134.70	315.40	49.50	24.70	203.00	
56	REVENUES FROM SALE OF ASH ($1,000)		.35				
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	364.30	317.60	49.50	24.70	216.90	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		.35				

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CONEMAUGH	R W. BR. SUSQ. R	R ALLEGHENY	R FKSTN & JUNIAT	R CONEMAUGH	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	480.00	697.40	100.00	69.00	23.40	
63	AVERAGE RATE OF DISCHARGE (CFS)	480.00	697.40	100.00	69.00	11.10	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	4.13	.33	.86		12.30	
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	SEP DEC	MAY DEC	SEP DEC	SEP DEC	SEP DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 50.00	74.00 46.00	74.00 43.00	68.00 36.00	80.00 50.00	
67	AT OUTFALL, SUMMER - WINTER		94.00 65.00	92.00 72.00	85.00 64.00	90.00 65.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		1,875.00	2,293.00	103.00	383.00	
69	- WINTER		2,563.00	4,720.00	455.00	1,225.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]					C	
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.73	1.45	.55	.48		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.03	656.70	.03	.83	491.04	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP					843.59	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	.65	14.70	2.05	.94		
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.05			.90		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	SW	OT	
78	RECEIVING WATER BODY [18]				R FKSTN & JUNIAT	R CONEMAUGH	
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	4.00		6.50		7.00	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	27.00	15.00	5.00		50.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING	57,092.25	28,000.00	34,158.00	3,000.00	367,164.00	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	4 258.00		2 80.00			
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)						
86	COOLING TOWER(S)					1 820.00	
87	COMBINATION [19]		4 628.00		3 47.50		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1938 1950	1954 1959	1948 1949	1916 1944	1969	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [20]	20.00	20.00	20.00	13.70 20.00	27.30	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	468.00	688.40	131.00	69.00	625.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	480.00	697.40	131.00	69.00		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,089.84	2,228.70	442.90	205.10		
93	COOLING PONDS ($1,000)				42.80		
94	COOLING TOWERS ($1,000)		795.20			2,548.00	

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	19.20	86.80	1.00	.50	88.50	
96	COST OF CHEMICAL ADDITIVES ($1,000)	.80	3.20	1.50	.10	21.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.00	30.00	12.00	11.50	66.40	
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.50	86.00	1.00	3.00	63.60	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1 NAME OF UTILITY	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER & LIGHT CO.	1
2						2
3						3
4 NAME OF PLANT	BRUNNER ISLAND	HOLTWOOD	MARTINS CREEK	STANTON	SUNBURY	4
5 UTILITY-PLANT CODE	380000-0200	380000-0700	380000-0800	380000-0900	380000-1000	5
6 STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	6
7 COUNTY	YORK	LANCASTER	NORTHAMPTON	LUZERNE	SNYDER	7
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	196 02	196 02	151 02	151 G2	195 02	8
9 PLANT CAPACITY (MW)	1,558.73	105.00	312.50	146.00	409.78	9
10 ANNUAL GENERATION (MWH)[3]	7,025,700	590,700	1,778,400	566,300	2,619,300	10
11 PLANT HEAT RATE (BTU/KWH)[3]	9,712	14,386	11,307	16,142	12,171	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	2,784.30		435.30		794.50		449.10		1,363.50		12
13 AVERAGE HEAT CONTENT (BTU/LB)	12,013		9,742		12,289		10,143		11,676		13
14 AVERAGE SULFUR CONTENT (%)	2.87		.70		3.46		1.20		2.54		14
15 AVERAGE ASH CONTENT (%)	16.23		21.33		14.76		20.76		15.08		15
16 AVERAGE MOISTURE CONTENT (%)	5.31		15.26		4.35		11.89		9.41		16
17 OIL: CONSUMPTION (1,000 BARRELS)	229.12		2.76		100.31		4.90		6.49		17
18 AVERAGE HEAT CONTENT (BTU/GAL)	138,673		137,940		137,844		138,746		137,538		18
19 AVERAGE SULFUR CONTENT (%)	.22		.44		.40		.16		.16		19
20 GAS: CONSUMPTION (1,000 MCF)											20
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)											21

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	3		4		2		9		6		22
23 - NO. OF WET BOTTOM							1				23
24 - NO. WITH FLY ASH REINJECTION											24
25 - NO. WITH MECHANICAL PRECIPITATORS							8				25
26 - NO. WITH ELECTROSTATIC PRECIPITATORS	3		3		2						26
27 - NO. WITH COMBINATION PRECIPITATORS[4]			1				1		6		27
28 - NO. WITH DESULFURIZATION SYSTEMS											28
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	20.00 40.00		20.00	20.00 40.00		20.00 40.00				29
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH											30
31 TESTED, LOW - HIGH											31
32 ESTIMATED, LOW - HIGH			85.00				30.00				32
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.00	99.50	83.00 95.00		99.50		95.00		96.00		33
34 TESTED, LOW - HIGH		97.00							93.00		34
35 EST., LOW - HIGH	97.00	98.00					85.00		91.00 93.00		35
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH											36
37 TESTED, LOW - HIGH											37
38 ESTIMATED, LOW - HIGH											38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	10.18		5.52		.50		27.07		14.06		39
40 SULFUR DIOXIDE (1,000 TONS)	156.79		5.98		54.01		10.57		67.88		40
41 NITROGEN OXIDES (1,000 TONS)	25.56		3.92		7.37		4.93		12.29		41
42 STACKS: - TOTAL NO.	2		4		1		3		4		42
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]	450.00	600.00 152.00	200.00		250.00	170.00	171.00		300.00		43
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]											44
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]	443.40		80.80		101.90		87.30		179.50		45
46 SOLD (1,000 TONS)[11]							44.50				46
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)											47
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]											48
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)											49
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)											50
51 ELECTROSTATIC PRECIPITATORS ($1,000)	3,578.00		216.00		2,200.00				3,578.30		51
52 COMBINATION PRECIPITATORS ($1,000)[4]			1,035.00				526.00				52
53 DESULFURIZATION SYSTEMS ($1,000)											53
54 STACKS ($1,000)	1,286.00		107.00		232.00		29.30		337.00		54
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	262.00		60.00		55.00		78.00		176.00		55
56 REVENUES FROM SALE OF ASH ($1,000)							13.00				56
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)											57
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)											58
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	284.00		60.00		66.00		78.00		176.00		59
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)							13.00				60

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SUSQUEHANNA		R SUSQUEHANNA		R DELAWARE		R SUSQUEHANNA		R SUSQUEHANNA		61
62 AVERAGE RATE OF WITHDRAWAL (CFS)	703.00		187.00		251.00		346.00		448.50		62
63 AVERAGE RATE OF DISCHARGE (CFS)	696.00		187.00		243.30		344.00		448.50		63
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	6.05	7.00	1.61		2.16	7.70	2.98	2.00	3.86		64
65 PEAK LOAD MONTH : SUMMER - WINTER[5]	AUG	DEC	AUG	DEC	AUG	DEC	AUG	DEC	AUG	DEC	65
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00	43.00	84.00	32.00	84.00	48.00	84.00	44.00	85.00	45.00	66
67 AT OUTFALL, SUMMER - WINTER	117.00	103.00	94.00	67.00	106.00	69.00	94.00	54.00	105.00	62.00	67
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	10,900.00		10,900.00		4,900.00		3,800.00				68
69 - WINTER	42,600.00		19,100.00		5,800.00		8,000.00				69
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[15]											70
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	.25		.89				.08		2.16		71
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	670.00						.01		.05		72
73 LIME (TONS), COOLING WATER - BOILER MAKEUP											73
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP	85.00		.92						22.00		74
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	8.00		5.40 .20								75
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[16]	YES		YES				YES		YES		76
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[10]			OT		OT		ST		PS		77
78 RECEIVING WATER BODY			R SUSQUEHANNA								78
79 POND DISCHARGE[10]: PH, BOILER BLOWDOWN - ASH SETTLING					10.00						79
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					200.00						80
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	9,800.00		5.30		3,600.00		5,300.00		4,800.00		81
82 - ASH SETTLING	175,000.00		25,000.00		63,000.00		52,500.00		88,300.00		82

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	3	1,558.73	3	96.00	2	312.50	3	140.00	4	409.78	83
84 ONCE THROUGH COOLING (SALINE)											84
85 COOLING PONDS											85
86 COOLING TOWERS											86
87 COMBINATION[21]											87
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1961	1969	1925	1954	1954	1956	1921	1953	1949	1953	88
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	24.00	29.00	12.00	19.00		27.00	13.00	18.00	20.00	23.00	89
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		1,159.00		224.00		266.00		335.00		458.40	90
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		1,159.00		224.00		266.00		134.00		458.40	91

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	1,755.00	489.00	1,247.00	1,328.00	2,600.00	92
93 COOLING PONDS ($1,000)						93
94 COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	26.00	28.60	16.20	3.70	31.80	95
96 COST OF CHEMICAL ADDITIVES ($1,000)	2.50	.80			3.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	45.20	29.00		2.70	3.00	97
98 COST OF CHEMICAL ADDITIVES ($1,000)	121.50	.60		.70	9.90	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	PENNSYLVANIA POWER CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.		1
2								2
3								3
4	NAME OF PLANT	NEW CASTLE	BARBADOES	CHESTER	CROMBY	DELAWARE		4
5	UTILITY-PLANT CODE	380500-0100	384000-0100	384000-0200	384000-0300	384000-0400		5
6	STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA		6
7	COUNTY	LAWRENCE	MONTGOMERY	DELAWARE	CHESTER	PHILADELPHIA		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	178 05	045 02	045 02	045 02	045 02		8
9	PLANT CAPACITY (MW)	425.80	155.00	256.00	417.50	439.25		9
10	ANNUAL GENERATION (MWH) [3]	1,911,700	932,400	1,036,000	2,575,100	1,904,600		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11,823	12,439	14,806	9,763	11,921		11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	1,060.00	213.00	43.00	320.00			12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,662	13,145	11,646	13,158			13
14	AVERAGE SULFUR CONTENT (%)	3.69	2.62	1.67	2.53			14
15	AVERAGE ASH CONTENT (%)	20.57	8.08	15.82	8.53			15
16	AVERAGE MOISTURE CONTENT (%)	6.57	5.05	5.30	4.62			16
17	OIL: CONSUMPTION (1,000 BARRELS)		385.00	1,359.00	2,689.00	3,687.00		17
18	AVERAGE HEAT CONTENT (BTU/GAL)		149,247	148,219	147,915	146,626		18
19	AVERAGE SULFUR CONTENT (%)		1.13	1.42	1.49	1.22		19
20	GAS: CONSUMPTION (1,000 MCF)		3,676.00	2,834.00				20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		977	975				21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	5	6	14	2	3		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS			2				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	5						26
27	- NO. WITH COMBINATION PRECIPITATORS [4]		2		2	2		27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	20.00	20.00	15.00	15.00 20.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			80.00				30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH			40.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	95.00 98.00	96.00		98.00	96.00		33
34	TESTED, LOW - HIGH		94.00			96.00		34
35	EST., LOW - HIGH	95.00 98.00	90.00		90.00 95.00	50.00 55.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	TEST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	5.12	1.49	4.64	1.82	.39		39
40	SULFUR DIOXIDE (1,000 TONS)	76.65	12.40	10.26	29.31	15.09		40
41	NITROGEN OXIDES (1,000 TONS)	9.54	3.48	4.97	8.81	8.13		41
42	STACKS: - TOTAL NO.	4	2	3	2	5		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	231.00 232.00	330.00	192.00 195.00	300.00	160.00 200.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	214.10	28.50	8.30	35.20	5.00		45
46	SOLD (1,000 TONS) [11]							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			156.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	1,511.00						51
52	COMBINATION PRECIPITATORS ($1,000) [4]		500.00		900.00	650.00		52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	156.00	244.00	122.00	368.00	173.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	80.00	9.50	7.70	37.70	.90		55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	80.00	9.50	7.70	37.70	.90		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R BEAVER	R SCHUYLKILL	R DELAWARE	R SCHUYLKILL	R DELAWARE		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	456.00	127.00	298.60	513.40	880.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	456.00	127.00	298.60	513.10	880.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.92	1.09	2.57	4.42 .30	7.57		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG FEB	SEP DEC	SEP DEC	SEP DEC	SEP DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 42.00	85.90 38.30	85.00 42.00	88.00 54.00	84.00 39.00		66
67	AT OUTFALL, SUMMER - WINTER	107.00 59.00	107.10 64.60	96.00 60.00	105.00 66.20	98.00 53.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,476.00	2,093.00	252,000.00	1,618.00	105,000.00		68
69	- WINTER	4,475.00	1,035.00	252,000.00	1,803.00	105,000.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CI [16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.40	1.70	.42	.40	5.40		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.45	.20	.31				72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP							73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		42.00		80.00	12.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	PS	PS	OT	PS		77
78	RECEIVING WATER BODY [18]				R SCHUYLKILL			78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	6.50	10.10 9.60	6.10	7.70	7.00		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	100.00	13.00 31.00		54.00	70.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		304.00	.70	7,730.00	1.13		81
82	- ASH SETTLING	61,500.00	9,600.00	414.99				82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING [19]: ONCE THROUGH COOLING (FRESH)	5 425.08	3 196.00	6 284.00	2 388.00	6 379.75		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING PONDS							85
86	COOLING TOWERS							86
87	COMBINATION [20]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1939 1964	1924 1949	1924 1945	1954	1924 1953		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	12.50 16.70	15.00 23.70	11.00 12.00	14.00 17.30	11.00 18.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	629.00	267.00	962.00	490.00	424.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	629.00	267.00	962.00	490.00	423.00		91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,308.00						92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)							94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	13.00	18.10	10.32	40.30	177.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	12.00	5.00	4.90	4.80	7.50		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	67.00	6.50	8.75	38.30	45.50		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	4.00	4.70	.74	1.60	15.60		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.		
NAME OF PLANT	EDDYSTONE	PEACH BOTTOM	RICHMOND	SCHUYLKILL	SOUTHWARK		
UTILITY-PLANT CODE	384000-0500	384000-0700	384000-0900	384000-1000	384000-1100		
STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA		
COUNTY	DELAWARE	YORK	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA		
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	045 02	196 02	045 02	045 02	045 02		
PLANT CAPACITY (MW)	707.20	46.00	476.50	325.40	345.00		
ANNUAL GENERATION (MWHR)[3]	4,149,500	137,100	2,547,500	2,071,400	2,315,900		
PLANT HEAT RATE (BTU/KWHR)[3]	8,838		12,971	10,256	12,436		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,397.00		67.00				
AVERAGE HEAT CONTENT (BTU/LB)	13,000		12,474				
AVERAGE SULFUR CONTENT (%)	2.49		2.03				
AVERAGE ASH CONTENT (%)	9.13		12.27				
AVERAGE MOISTURE CONTENT (%)	4.90		5.34				
OIL: CONSUMPTION (1,000 BARRELS)	57.00		5,082.00	4,772.00	4,656.00		
AVERAGE HEAT CONTENT (BTU/GAL)	145,414		147,019	147,643	147,275		
AVERAGE SULFUR CONTENT (%)	1.59		1.12	1.07	1.21		
GAS: CONSUMPTION (1,000 MCF)							
AVERAGE HEAT CONTENT (BTU/CU.FT.)							

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2		5	7	4		
- NO. OF WET BOTTOM			2				
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS			4	3			
- NO. WITH ELECTROSTATIC PRECIPITATORS			4	2			
- NO. WITH COMBINATION PRECIPITATORS[4]	2				4		
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00		20.00 25.00	15.00	26.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			65.00 80.00	76.00 86.00			
TESTED, LOW - HIGH				66.00 80.00			
ESTIMATED, LOW - HIGH	98.50		80.00	90.00	99.30		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.88 99.39		94.00 97.00		32.50 38.70		
TESTED, LOW - HIGH			5.00				
EST., LOW - HIGH							
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.96		6.67	.25	.50		
SULFUR OXIDE (1,000 TONS)	68.48		21.76	17.13	18.90		
NITROGEN OXIDES (1,000 TONS)	12.70		11.75	10.52	10.27		
STACKS: - TOTAL NO.	2		4	5	4		
- HEIGHT (FEET), LOWEST - HIGHEST[8]	248.00		173.00	228.00 275.00	264.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]				.10	15.00		
TOTAL ASH: COLLECTED (1,000 TONS)[10]	118.40		19.70	5.00	7.50		
SOLD (1,000 TONS)[11]	8.50		7.40				
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			496.00	221.00			
ELECTROSTATIC PRECIPITATORS ($1,000)			539.00	167.00			
COMBINATION PRECIPITATORS ($1,000)[4]	1,985.00				1,575.00		
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	236.00		119.00	222.00	176.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	155.60		5.60	4.00	1.40		
REVENUES FROM SALE OF ASH ($1,000)	5.70		1.90				
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	155.60		5.60	5.90	1.40		
TOTAL BYPRODUCT SALES REVENUES ($1,000)	5.70		1.90				

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R DELAWARE	R SUSQUEHANNA	R DELAWARE	R SCHUYLKILL	R DELAWARE		
AVERAGE RATE OF WITHDRAWAL (CFS)	936.00	46.00	720.00	386.00	653.00		
AVERAGE RATE OF DISCHARGE (CFS)	936.00	46.00	720.00	386.06	653.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	8.05	.40	6.19	3.32	5.62		
PEAK LOAD MONTH : SUMMER - WINTER[15]	SEP OEC	SEP OEC	SEP OEC	SEP OEC	SEP OEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 55.00	91.00 56.00	82.00 41.00	85.60 39.00	83.00 55.00		
AT OUTFALL, SUMMER - WINTER	98.00 65.00	96.00 55.00	96.00 55.00	100.00 54.00	96.00 68.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	207,000.00	81,000.00	96,000.00	1,506.00	120,000.00		
- WINTER	207,000.00	41,000.00	96,000.00	1,053.00	120,000.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT[16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.10		.50	6.00	.35		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		26.50	.25	1.30	.07		
LIME (TONS), COOLING WATER - BOILER MAKEUP			13.75				
ALUM (TONS), COOLING WATER - BOILER MAKEUP			495.00	120.00	210.00		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	120.00		YES	YES	YES		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	PS OT	PS	PS		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	R SUSQUEHANNA					
RECEIVING WATER BODY							
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	6.90		6.80	10.00 7.00	11.20		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	52.00		35.00	1,000.00	700.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				1,435.00	133.15		
- ASH SETTLING	381,000.00			1,952.00			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	2 650.00	1 40.00		5 338.00	2 374.00		
ONCE THROUGH COOLING (SALINE)			4 446.00				
COOLING POND(S)							
COOLING TOWER(S)							
COMBINATION[21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1960	1966	1913 1914	1917 1958	1947 1948		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.00 14.00	11.00		15.00	13.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	890.00	92.06	872.00	429.00	620.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	890.00	104.00	872.00	429.00	620.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)							
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	11.10	1.80	18.06	36.00	140.00		
COST OF CHEMICAL ADDITIVES ($1,000)	12.70	2.10	45.16	9.60	12.60		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	45.20	2.60	19.94	345.30	115.00		
COST OF CHEMICAL ADDITIVES ($1,000)	40.00	19.60	42.74	484.60	30.60		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	PIQUA MUNICIPAL POWER PLANT		PORTLAND GENERAL ELECTRIC CO.		POTOMAC EDISON CO. (VA.)		POTOMAC ELECTRIC POWER CO.		POTOMAC ELECTRIC POWER CO.	1
2		2										2
3		3										3
4	NAME OF PLANT	4	PIQUA		STATION L		RIVERTON		BENNING		BUZZARD POINT	4
5	UTILITY-PLANT CODE	5	387500-0100		393000-0200		393500-0300		394500-0100		394500-0200	5
6	STATE	6	OH10		OREGON		VIRGINIA		WASHINGTON, D. C.		WASHINGTON, D. C.	6
7	COUNTY	7	PIQUA		MULTNOMAH		WARREN					7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	173 05		193 17		226 02		047 02		047 02	8
9	PLANT CAPACITY (MW)	9	53.00		75.50		34.50		554.00		270.00	9
10	ANNUAL GENERATION (MWH) 3/	10	134,800				153,800		1,898,100		749,200	10
11	PLANT HEAT RATE (BTU/KWH) 3/	11	20,230				13,984		12,873		13,211	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12	101.98				93.70		288.54		384.03	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,979				11,439		13,126		12,836	13
14	AVERAGE SULFUR CONTENT (%)	14	2.99				2.02		1.01		1.43	14
15	AVERAGE ASH CONTENT (%)	15	8.80				19.71		9.55		11.33	15
16	AVERAGE MOISTURE CONTENT (%)	16	2.21				3.67		4.72		5.03	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	.22				3.05		2,753.38		6.59	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	140,000				139,000		145,788		138,000	18
19	AVERAGE SULFUR CONTENT (%)	19	.75				.25		1.01		.20	19
20	GAS: CONSUMPTION 11,000 MCF)	20									1.39	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21									1,100	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	6		7		1		23		6	22
23	- NO. OF WET BOTTOM	23									6	23
24	- NO. WITH FLY ASH REINJECTION	24										24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	3				1		12		2	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26							I			26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27							1		6	27
28	- NO. WITH DESULFURIZATION SYSTEMS	28										28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	32.00 38.00		25.00 40.00		20.00		3.00 25.00		20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	85.00 92.00				85.00		93.00		86.40	30
31	TESTED, LOW - HIGH	31					79.00					31
32	ESTIMATED, LOW - HIGH	32	85.00 92.00						93.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	33							96.00 98.40		99.30	33
34	TESTED, LOW - HIGH	34										34
35	EST., LOW - HIGH	35							96.00 99.00		99.30	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36										36
37	TESTED, LOW - HIGH	37										37
38	ESTIMATED, LOW - HIGH	38										38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER 11,000 TONS)	39	.98				3.30		2.52		.20	39
40	SULFUR DIOXIDE (1,000 TONS)	40	5.79				3.71		15.04		10.77	40
41	NITROGEN OXIDES (1,000 TONS)	41	.74				.85		8.24		5.78	41
42	STACKS: - TOTAL NO.	42	5		6		1		9		3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	99.50 127.00	43.00	51.00		109.00	177.30	241.40		178.25	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44										44
45	TOTAL ASH: COLLECTED 11,000 TONS) 10/	45	7.77				15.02		28.00		43.40	45
46	SOLD (1,000 TONS) 11/	46					3.45		5.60			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47										47
48	EQUIVALENT OF AC10 COLLECTED 11,000 TONS) 12/	48										48
49	ELEMENTAL AND EQUIVALENT OF AC10 SOLD 11,000 TONS)	49										49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS I$1,000)	50	35.00				207.00		154.00		168.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51							116.00			51
52	COMBINATION PRECIPITATORS I$1,000) 4/	52							271.00		1,990.00	52
53	DESULFURIZATION SYSTEMS ($1,000)	53										53
54	STACKS ($1,000)	54			8.90		27.00		459.00		61.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES I$1,000)	55	17.00				5.98		243.00		437.00	55
56	REVENUES FROM SALE OF ASH ($1,000)	56					3.45					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57										57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58										58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	59	17.00				5.98		243.00		437.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60					3.45		3.12			60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, R, C, W, M & O EXPL. IN FOOTNOTES)	61	R MIAMI		R WILLAMETTE		R SHENANDOAH		R ANACOSTIA		R ANACOSTIA	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	90.00				69.00		460.00		880.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	90.00				69.00		460.00		880.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	.77				.59		3.96		7.57	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	65	AUG	JAN			JUL	DEC	JUL	JAN	JUL	JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	93.00	39.00			79.00	34.00	90.00	38.30	82.00	39.00	66
67	AT OUTFALL, SUMMER - WINTER	67	102.00	51.00			95.00	50.00	105.00	47.00	92.00	49.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		81.70				964.00					68
69	- WINTER	69		832.00				2,350.00					69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		1.00				.02		11.33		.85	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		1.25				.60	12.50			.03	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73								9.13			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						.90	65.13				74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	1.25				.85	.15	75.00		11.40		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76		YES				YES	YES	YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	77	PS		ST		ST		PS		PS		77
78	RECEIVING WATER BODY	78					R SHENANDOAH				R POTOMAC		78
79	POND DISCHARGE: 16/ PH, BOILER BLOWDOWN - ASH SETTLING	79											79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80											80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81											81
82	- ASH SETTLING	82						32,400.00					82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	83	6	52.00	4	73.50	1	40.00	11	328.00	6	304.00	83
84	ONCE THROUGH COOLING (SALINE)	84											84
85	COOLING PONDS)	85											85
86	COOLING TOWER(S)	86							1	289.00			86
87	COMBINATIONS 21/	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1933	1961	1916	1930		1949	1917	1968	1932	1945	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	89	9.50	18.00		15.00		16.00	10.00	24.00		10.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		160.00		244.00		66.00		1,144.00		880.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		160.00		14.00		67.00		1,144.00		880.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS I$1,000)	92				166.00		238.00		990.00		687.00	92
93	COOLING PONDS ($1,000)	93								460.00			93
94	COOLING TOWERS ($1,000)	94											94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	5.00				18.30		53.00		20.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	2.30				.45						96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	5.00				10.00		101.00		35.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	4.00				.88						98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	COWLITZ COUNTY PUB UTIL DST #1	
NAME OF PLANT	CHALK POINT	DICKERSON	POTOMAC RIVER	MORGANTOWN	LONGVIEW	
UTILITY-PLANT CODE	394500-0300	394500-0400	394500-0500	394500-0600	401500-0100	
STATE	MARYLAND	MARYLAND	VIRGINIA	MARYLAND	WASHINGTON	
COUNTY	PRINCE GEORGES	MONTGOMERY	CITY OF ALEX.	CHARLES	COWLITZ	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	047 02	047 02	047 02	116 02	193 17	
PLANT CAPACITY (MW)	728.00	587.00	515.00	626.00	26.64	
ANNUAL GENERATION (MWH) [3]	3,157,100	3,701,400	2,639,000	1,364,300		
PLANT HEAT RATE (BTU/KWH) [3]	9,473	9,348	10,133	9,390		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,162.67	1,386.85	1,042.51	160.66		
AVERAGE HEAT CONTENT (BTU/LB)	12,114	11,759	12,713	12,022		
AVERAGE SULFUR CONTENT (%)	2.39	2.23	1.02	2.21		
AVERAGE ASH CONTENT (%)	15.48	16.35	11.77	15.53		
AVERAGE MOISTURE CONTENT (%)	5.22	6.10	5.07	4.91		
OIL: CONSUMPTION (1,000 BARRELS)	298.67	341.43	36.95	1,492.61	3.46	
AVERAGE HEAT CONTENT (BTU/GAL)	137,914	138,244	137,000	148,430	142,857	
AVERAGE SULFUR CONTENT (%)	.11	.10	.10	1.88	.10	
GAS: CONSUMPTION (1,000 MCF)						
AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	3	5	1	1	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS	2	3		1		
- NO. WITH COMBINATION PRECIPITATORS [4]			5			
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	18.00	20.00	18.00	18.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	97.50	97.50	99.30 99.70	99.50		
TESTED, LOW - HIGH	95.76	78.56 86.23	94.00 98.60			
EST., LOW - HIGH	97.50			99.50		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	4.78	32.38	4.14	.11		
SULFUR DIOXIDE (1,000 TONS)	54.57	60.73	20.85	16.37		
NITROGEN OXIDES (1,000 TONS)	11.12	13.25	9.46	4.74	.01	
STACKS: - TOTAL NO.	2	2	5	1	2	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	400.00	400.00	161.00	700.00	300.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	180.20	226.10	123.00	25.10		
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)	907.00	1,309.00		1,724.00		
COMBINATION PRECIPITATORS ($1,000) [4]			1,669.00			
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	605.00	531.00	271.00	1,473.00	250.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	343.00	373.00	930.00	71.00		
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	343.00	373.00	930.00	71.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R PATUXENT	R POTOMAC	R POTOMAC	R POTOMAC	R COLUMBIA	
AVERAGE RATE OF WITHDRAWAL (CFS)	1,114.00	633.00	697.00	1,125.00		
AVERAGE RATE OF DISCHARGE (CFS)	1,114.00	633.00	697.00	1,125.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	9.58	5.44	5.99	9.68		
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUN MAR	SEP JAN	JUL JAN	AUG NOV	JUN JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 49.00	80.00 35.00	82.00 44.00	82.00 61.00		
AT OUTFALL, SUMMER - WINTER	95.00 67.00		96.00 58.00	89.00 68.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			TIDE WATER	TIDE WATER		
- WINTER			TIDE WATER	TIDE WATER		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]				C		
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.09	.28		2.74	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	363.66	50.70	21.00	35.41	1.83	
LIME (TONS), COOLING WATER - BOILER MAKEUP	25.50	1.50				
ALUM (TONS), COOLING WATER - BOILER MAKEUP	63.00	52.08	35.00			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	653.00	20.00	100.00			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	OT	PS	OT	OT	
RECEIVING WATER BODY	R PATUXENT	R POTOMAC	R POTOMAC	R POTOMAC		
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		3 525.00	5 514.00		5 33.30	
ONCE THROUGH COOLING (SALINE)	2 730.00			1 626.00		
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATIONS [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1964	1959 1962	1949 1957	1970	1924 1932	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	11.00	16.00	14.00	10.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,114.00	633.00	696.40	1,125.00	68.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,114.00	633.00	697.00	1,125.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	4,665.00	2,510.00	1,611.00	5,206.00	500.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	267.00	80.00	108.00	94.00		
COST OF CHEMICAL ADDITIVES ($1,000)						

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	50.00	29.00	21.00	19.00	4.41	
COST OF CHEMICAL ADDITIVES ($1,000)					1.60	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	PUBLIC SERVICE CO. OF NEW MEXICO	PUBLIC SERVICE CO. OF NEW MEXICO	PUBLIC SERVICE CO. OF NEW MEXICO	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO. OF INDIANA INC.	
NAME OF PLANT	PERSON	PRAGER	REEVES	ORESSER	EDWARDSPORT	
UTILITY-PLANT CODE	403500-0100	403500-0200	403500-0300	404500-0100	404500-0200	
STATE	NEW MEXICO	NEW MEXICO	NEW MEXICO	INDIANA	INDIANA	
COUNTY	BERNALILLO	BERNALILLO	BERNALILLO	VIGO	KNOX	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	152 13	152 13	152 13	084 05	084 05	
PLANT CAPACITY (MW)	125.00	35.00	175.00	210.00	144.25	
ANNUAL GENERATION (MWH) [3]	369,300		1,086,900	570,400	693,200	
PLANT HEAT RATE (BTU/KWH) [3]	13,526		11,266	14,371	13,316	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)				391.00	420.00	
AVERAGE HEAT CONTENT (BTU/LB)				10,484	10,981	
AVERAGE SULFUR CONTENT (%)				3.87	2.64	
AVERAGE ASH CONTENT (%)				13.05	9.41	
AVERAGE MOISTURE CONTENT (%)				13.90	13.43	
OIL: CONSUMPTION (1,000 BARRELS)	25.50		58.70	26.00	10.00	
AVERAGE HEAT CONTENT (BTU/GAL)	148,991		149,029	140,000	140,000	
AVERAGE SULFUR CONTENT (%)	.80		.80	.31	.31	
GAS: CONSUMPTION (1,000 MCF)	4,213.00	16.20	10,720.00			
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,103	1,102	1,103			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	5	3	8	4	
- NO. OF WET BOTTOM				7	1	
- NO. WITH FLY ASH REINJECTION					1	
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	7.00 15.00	15.00 20.00	7.00 10.00	20.00	20.00 23.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					84.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH					70.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)			.01	33.18	26.02	
SULFUR DIOXIDE (1,000 TONS)	.07		.16	29.70	21.76	
NITROGEN OXIDES (1,000 TONS)	.88		2.22	5.89	4.38	
STACKS: - TOTAL NO.	4	5	3	4	4	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	66.00 68.50	49.00 67.00	118.30	303.00	143.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]				23.97	21.80	
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					40.00	
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)		17.80		164.00	50.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)				47.00	61.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]				47.00	61.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, R, C, W, M & O EXPL. IN FOOTNOTES)	W	W	W	R WABASH	R WHITE	
AVERAGE RATE OF WITHDRAWAL (CFS)	1.90		2.80	173.25	307.20	
AVERAGE RATE OF DISCHARGE (CFS)	1.10		.70	173.14	306.90	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.80		2.20	1.49 .11	2.64 .27	
PEAK LOAD MONTH : SUMMER - WINTER [15]				JUL JAN	JUL JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER				87.00 38.00	80.00 38.00	
AT OUTFALL, SUMMER - WINTER				99.00 57.00	97.00 63.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				5,560.00	1,025.00	
- WINTER				8,600.00	4,575.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CT [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	3.99 2.00		6.89 .40	2.00	.55	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	18.60		.40	61.00	56.52	
LIME (TONS), COOLING WATER - BOILER MAKEUP				33.60	109.50	
ALUM (TONS), COOLING WATER - BOILER MAKEUP				52.25	11.86	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	4.05		18.55	26.00 2.85	15.30 2.70	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES		YES YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [16]	ST	ST/PS	ST	ST	SW	
RECEIVING WATER BODY				R WABASH	R WHITE	
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING				10.50	11.00	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				5.00	5.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				597.00	650.00	
- ASH SETTLING					45,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)				6 221.00	3 130.00	
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS						
COOLING TOWERS	4 125.00	4 35.00	3 175.00			
COMBINATION [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1951 1957	1938 1948	1959 1962	1924 1945	1943 1951	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00	14.00 15.00	16.30	10.00 12.10	12.80 15.80	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	222.40	75.50	265.00	588.00	290.20	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)				588.00	290.20	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)				243.00	511.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	360.00	135.00	252.00			

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)				36.00	35.00	
COST OF CHEMICAL ADDITIVES ($1,000)	5.00		15.20	4.00	3.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)				89.00	84.00	
COST OF CHEMICAL ADDITIVES ($1,000)	9.20		3.30	16.00	11.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO. OF NEW HAMPSHIRE		1
2								2
3								3
4	NAME OF PLANT	NOBLESVILLE	GALLAGHER	WABASH RIVER	CAYUGA	MERRIMACK		4
5	UTILITY-PLANT CODE	404500-0500	404500-0600	404500-0800	404500-0900	405000-1100		5
6	STATE	INDIANA	INDIANA	INDIANA	INDIANA	NEW HAMPSHIRE		6
7	COUNTY	HAMILTON	FLOYD	VIGO	VERMILLION	MERRIMACK		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	080 05	078 05	084 05	084 05	121 01		8
9	PLANT CAPACITY (MW)	100.00	600.00	962.00	531.00	459.24		9
10	ANNUAL GENERATION (MWH) [3]	204,700	3,704,000	5,134,800	806,800	2,738,900		10
11	PLANT HEAT RATE (BTU/KWH) [3]	12,933	10,329	10,046	9,947	9,687		11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	114.00	1,678.00	2,335.00	378.00	977.00		12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,411	11,398	11,047	10,328	13,450		13
14	AVERAGE SULFUR CONTENT (%)	2.89	3.27	2.55	2.29	2.42		14
15	AVERAGE ASH CONTENT (%)	9.61	9.90	10.02	12.98	7.15		15
16	AVERAGE MOISTURE CONTENT (%)	11.81	11.58	13.45	14.53	4.39		16
17	OIL: CONSUMPTION (1,000 BARRELS)	4.00	32.00	35.00	37.00			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	140,000	140,000	140,000			18
19	AVERAGE SULFUR CONTENT (%)	.31	.31	.31	.31			19
20	GAS: CONSUMPTION (1,000 MCF)							20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)							21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	3	4	6	1	2		22
23	- NO. OF WET BOTTOM					2		23
24	- NO. WITH FLY ASH REINJECTION					2		24
25	- NO. WITH MECHANICAL PRECIPITATORS	3		3				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		4	4	1	2		26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	25.00	20.00	20.00 24.00	20.00	16.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00		84.00				30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH	85.00		70.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		99.00	98.00 98.50	99.00	90.00 92.40		33
34	TESTED, LOW - HIGH		99.00			85.30 93.60		34
35	EST., LOW - HIGH		99.00	98.00 98.50	80.00	90.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	1.41	1.41	16.38	8.34	.87		39
40	SULFUR DIOXIDE (1,000 TONS)	6.50	107.61	116.73	17.00	46.34		40
41	NITROGEN OXIDES (1,000 TONS)	1.04	15.18	21.09	3.48	26.87		41
42	STACKS: - TOTAL NO.	3	2	6	1	2		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	225.00	550.00	300.00	500.00	225.00 317.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	10.46	163.00	215.40	48.80	77.20		45
46	SOLD (1,000 TONS) [11]					55.30		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	90.00		236.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		5,972.00	4,487.00	1,035.00	766.00		51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	111.00	715.00	532.00	292.00	393.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	32.00	151.00	185.00	21.00	172.00		55
56	REVENUES FROM SALE OF ASH ($1,000)					72.40		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	32.00	151.00	185.00	21.00	172.00		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					72.40		60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R WHITE	R OHIO	R WABASH	R WABASH	R MERRIMACK		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	182.20	702.80	1,109.80	726.28	444.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	182.10	702.70	1,109.70	721.83	444.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.57 .10	6.04 .10	9.54 .10	6.25 4.46	3.82		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL JAN	JUL JAN	JUL JAN		AUG DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	83.00 35.00	78.00 37.00	78.00 43.00		82.00 34.00		66
67	AT OUTFALL, SUMMER - WINTER	96.00 50.00	109.00 72.00	97.00 62.00		107.00 59.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	554.00	50,500.00	10,560.00		811.00		68
69	- WINTER	613.00	108,000.00	8,948.00		3,348.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]				C			70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.50	.55	.50	.08		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	6.00	19.71	.45	163.35	67.97		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	43.00	57.00	181.00	65.38			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	7.50						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	15.00 3.00	24.00 3.00	24.85 2.15	18.00 3.00	35.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES YES	YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	OT	ST		77
78	RECEIVING WATER BODY [19]							78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	10.50	9.00 9.00	9.00 9.00	8.50			79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00	5.00 50.00	5.00 50.00				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	19.30	2,270.00	3,500.00				81
82	- ASH SETTLING		53,000.00	30,800.00	56,206.39			82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 100.00	4 600.00	6 962.00	1 531.00	2 459.24		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING PONDS)							85
86	COOLING TOWERS)							86
87	COMBINATIONS [21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1950	1958 1961	1953 1968	1970	1960 1968		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.50	18.70	15.70 22.50	16.00	22.00 26.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	174.80	676.00	1,044.00	593.00	416.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	174.80	676.00	1,004.00	593.00	444.00		91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	532.00	2,462.00	2,998.00	1,540.00	1,924.00		92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)	191.00						94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.00	232.00	103.00	3.00	48.50		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	2.00	4.00	4.00	7.00	9.50		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	50.00	171.00	213.00	24.00	47.60		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	3.00	14.00	20.00	23.00	11.20		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	PUBLIC SERVICE CO OF NEW HAMPSHIRE		PUBLIC SERVICE ELECTRIC & GAS CO.		PUBLIC SERVICE ELECTRIC & GAS CO.		PUBLIC SERVICE ELECTRIC & GAS CO.		PUBLIC SERVICE ELECTRIC & GAS CO.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	SCHILLER		BERGEN		BURLINGTON		ESSEX		HUDSON		4
5	UTILITY-PLANT CODE	5	405000-1400		405500-0100		405500-0200		405500-0300		405500-0500		5
6	STATE	6	NEW HAMPSHIRE		NEW JERSEY		NEW JERSEY		NEW JERSEY		NEW JERSEY		6
7	COUNTY	7	ROCKINGHAM		BERGEN		BURLINGTON		ESSEX		HUDSON		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	121	01	043	02	045	02	043	02	043	02	8
9	PLANT CAPACITY (MW)	9	178.75		650.00		491.00		329.00		1,114.00		9
10	ANNUAL GENERATION (MWH) [3]	10	1,057,700		3,146,300		2,688,100		1,169,200		4,491,700		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	11,760		9,495		11,484		16,739		9,826		11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12			914.80				12.90		685.70		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13			12,266				13,200		12,458		13
14	AVERAGE SULFUR CONTENT (%)	14			2.12				1.51		1.90		14
15	AVERAGE ASH CONTENT (%)	15			11.99				7.32		11.42		15
16	AVERAGE MOISTURE CONTENT (%)	16			5.51				6.61		5.31		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	2,002.00				4,990.20		3,082.60		2,813.70		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	148,123				147,282		146,361		145,891		18
19	AVERAGE SULFUR CONTENT (%)	19	2.16				.89		.84		.75		19
20	GAS: CONSUMPTION (1,000 MCF)	20			7,170.60				277.80		9,447.40		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21			1,037				1,038		1,044		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	5		2		6		11		2		22
23	- NO. OF WET BOTTOM	23			2						1		23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25											25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					4		3		2		26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27	2		2		1						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	12.50	20.00	15.00		20.00	23.00	15.00	20.00	16.00	18.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30											30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32											32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33			98.00		95.00	97.00	90.00	93.00	99.00	99.50	33
34	TESTED, LOW - HIGH	34			94.90	96.70				88.00		97.80	34
35	EST., LOW - HIGH	35			94.70	96.50	5.00	25.00	5.00	92.70	97.60	98.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39	.34		3.05		.73		.46		1.32		39
40	SULFUR DIOXIDE (1,000 TONS)	40	14.51		38.01		14.90		9.07		32.62		40
41	NITROGEN OXIDES (1,000 TONS)	41	4.41		15.12		11.00		6.95		14.50		41
42	STACKS: - TOTAL NO.	42	4		2		4		4		2		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	137.00		305.50		224.80	225.30	273.00		325.50	498.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44	.20										44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45			107.00						54.00		45
46	SOLD (1,000 TONS) [11]	46			14.60								46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50											50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51					390.00		318.00		2,767.30		51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52	332.00		1,898.60		247.00						52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	116.00		829.50		124.50		158.90		2,019.70		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55			192.30						230.00		55
56	REVENUES FROM SALE OF ASH ($1,000)	56			14.60								56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59	3.00		192.30						230.00		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60	6.00		14.60								60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R PISCATAQUA		C OVERPECK		R DELAWARE		R PASSAIC		R HACKENSACK		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		252.40		968.00		709.00		847.00		1,382.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63		252.40		968.00		709.00		847.00		1,382.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	2.17		8.32		6.10		7.28		11.89		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	AUG	DEC	JUL	DEC	JUL	DEC	JUL	DEC	JUL	DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	70.00	46.00	92.00	49.00	80.00	37.00	80.00	45.00	84.00	46.00	66
67	AT OUTFALL, SUMMER - WINTER	67	92.00	72.00	103.00	60.00	92.00	49.00	92.00	57.00	98.00	60.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		17,600.00				11,150.00					68
69	- WINTER	69		17,600.00				10,730.00					69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, [16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		.72		.75							71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		60.90		181.26		4.92		19.08		360.93	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73											73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	18.45		825.00		64.00		277.00		660.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES	YES		YES		YES		YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	ST		PS		PS		PS		PS		77
78	RECEIVING WATER BODY	78	R PISCATAQUA										78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	79				7.10	10.50		10.50			6.90	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80				4.60	5.00		5.00			5.30	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81						698.00		703.00			81
82	- ASH SETTLING	82				218.20						130.92	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83					7	491.00				83
84	ONCE THROUGH COOLING (SALINE)	84	4	178.75	2	650.00			7	329.00	2	1,114.00	84
85	COOLING POND(S)	85											85
86	COOLING TOWER(S)	86											86
87	COMBINATIONS [21]	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1949	1957	1959	1960	1915	1955	1916	1947	1964	1968	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	17.00	20.00		11.20	12.20	18.00	9.20	24.80	12.40	15.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		245.00		968.00		708.60		847.00		1,342.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		252.40		968.00		708.60		845.00		1,382.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92		1,889.00		2,813.70		1,423.50		1,700.90		4,343.80	92
93	COOLING PONDS ($1,000)	93											93
94	COOLING TOWERS ($1,000)	94											94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95		37.50		27.70		80.20		105.80		87.70	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		5.80		59.20		6.90		23.00		45.30	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		53.00		100.30		83.20		51.00		120.50	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		8.20		18.70		1.60		4.20		46.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE ELECTRIC & GAS CO.	
NAME OF PLANT	KEARNY A	KEARNY B	LINDEN	MARION	MERCER	
UTILITY-PLANT CODE	405500-0700	405500-0800	405500-0900	405500-1000	405500-1100	
STATE	NEW JERSEY	NEW JERSEY	NEW JERSEY	NEW JERSEY	NEW JERSEY	
COUNTY	HUDSON	HUDSON	UNION	HUDSON	MERCER	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	043 02	043 02	043 02	043 02	045 02	
PLANT CAPACITY (MW)	305.00	294.00	519.00	125.00	653.00	
ANNUAL GENERATION (MWH) [3]	531,100	1,439,400	3,248,600	561,100	3,707,500	
PLANT HEAT RATE (BTU/KWH) [3]	26,691	10,227	8,543	14,151	9,490	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)		13.60			1,109.50	
AVERAGE HEAT CONTENT (BTU/LB)		12,500			12,368	
AVERAGE SULFUR CONTENT (%)					1.85	
AVERAGE ASH CONTENT (%)					13.36	
AVERAGE MOISTURE CONTENT (%)					5.92	
OIL: CONSUMPTION (1,000 BARRELS)	2,307.50	2,340.40	7,442.40	1,292.70		
AVERAGE HEAT CONTENT (BTU/GAL)	146,304	146,259	144,498	146,318		
AVERAGE SULFUR CONTENT (%)	.85	.86	1.13	.87		
GAS: CONSUMPTION (1,000 MCF)					7,458.50	
AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,037	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	15	2	4	2	2	
- NO. OF WET BOTTOM					2	
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS				2		
- NO. WITH COMBINATION PRECIPITATORS [4]		2			2	
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	20.00	14.00	20.00	15.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED. LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		97.00		95.00	98.00 99.00	
TESTED, LOW - HIGH		91.50			90.50 95.70	
EST., LOW - HIGH	25.00 91.30			5.00	90.30 95.50	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.39	.16	1.25	.21	6.69	
SULFUR DIOXIDE (1,000 TONS)	6.58	6.75	28.22	3.77	40.23	
NITROGEN OXIDES (1,000 TONS)	5.09	5.26	16.41	2.85	18.10	
STACKS: - TOTAL NO.	3	2	5	1	2	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	277.80	276.30	225.50	223.30	325.50	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]			.09	.04	.70	
TOTAL ASH: COLLECTED (1,000 TONS) [10]		1.10	.30		140.00	
SOLD (1,000 TONS) [11]			.30		12.50	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)				182.00		
COMBINATION PRECIPITATORS ($1,000) [4]		58.00			3,403.20	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	252.30	154.40	609.00	22.10	583.40	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					192.00	
REVENUES FROM SALE OF ASH ($1,000)			15.40		7.90	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]					192.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)			15.40		7.90	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R HACKENSACK	R HACKENSACK	O ARTHUR KILL	R HACKENSACK	R DELAWARE	
AVERAGE RATE OF WITHDRAWAL (CFS)	1,081.00	440.00	528.00	176.00	1,056.00	
AVERAGE RATE OF DISCHARGE (CFS)	1,081.00	440.00	528.00	176.00	1,056.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	9.30	3.78	4.54	1.51	9.08	
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL OEC	JUL OEC	JUL OEC	JUL OEC	JUL OEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00 50.00	87.00 50.00	72.00 36.00	82.00 49.00	83.00 38.00	
AT OUTFALL, SUMMER - WINTER	98.00 61.00	100.00 63.00	86.00 50.00	94.00 61.00	94.00 49.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					11,150.00	
- WINTER					10,730.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.30		11.05	12.00		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	34.50	93.00	1,631.50		52.50	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP			275.30			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	123.50	66.50	715.00	66.00	91.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS		ST	PS	ST	
RECEIVING WATER BODY						
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	10.50	8.80		10.50	6.90	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00	2.00		5.00	4.10	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	1,600.00	64.00		281.00	203.65	
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)					2 652.00	
ONCE THROUGH COOLING (SALINE)	6 304.00	2 294.00	2 520.00	1 125.00		
COOLING PONDS [21]						
COOLING TOWERS [21]						
COMBINATION [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1925 1932	1953	1957	1941	1960	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	10.40 12.20	12.50	12.20 15.20	12.30	11.20	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,081.00	440.00	528.00	176.00	1,056.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,081.00	440.00	538.00	176.00	1,056.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,086.80	990.20	1,919.20	283.40	2,918.40	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	39.90	39.00	49.70	37.50	28.80	
COST OF CHEMICAL ADDITIVES ($1,000)	11.10	6.00	47.70	4.60	9.90	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	47.70	59.00	179.40	13.30	70.90	
COST OF CHEMICAL ADDITIVES ($1,000)	11.20	8.20	217.90	3.10	8.40	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	PUBLIC SERVICE		PUBLIC SERVICE		PUBLIC SERVICE		PUBLIC SERVICE		PUBLIC SEPVICE		1
2		2	ELECTRIC & GAS		CO. OF COLORADO		CO. OF COLORADO		CO. OF COLORADO		CO. OF COLORADO		2
3		3	CO.										3
4	NAME OF PLANT	4	SEWAREN		APAPHUE		CAMEO		CHEPOKEE		VALMONT		4
5	UTILITY-PLANT CODE	5	405500-1200		406000-0200		406000-0500		406000-0600		406000-1200		5
6	STATE	6	NEW JERSEY		COLORADO		COLORADO		COLORADO		COLORADO		6
7	COUNTY	7	MIDDLESEX		OENVEP		MESA		ADAMS		BOULDER		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	043	02	036	10	035	14	036	10	036	10	8
9	PLANT CAPACITY (MW)	9		820.00		250.50		75.00		801.30		281.75	9
10	ANNUAL GENERATION (MWH) [3]	10	4,030,300		903,700		462,600		4,586,600		976,000		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	10,737		12,150		11,452		9,861		11,542		11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12			277.30		125.71		1,533.40		311.89		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13			9,966		11,568		10,924		10,330		13
14	AVERAGE SULFUR CONTENT (%)	14			.53		.58		.53		.70		14
15	AVERAGE ASH CONTENT (%)	15			7.20		7.50		8.00		8.30		15
16	AVERAGE MOISTURE CONTENT (%)	16			18.30		6.40		10.50		15.00		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	6,792.20				.06						17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	147,799				140,171						18
19	AVERAGE SULFUR CONTENT (%)	19	1.15				.19						19
20	GAS: CONSUMPTION (1,000 MCF)	20	809.70		6,425.40		2,028.47		14,879.30		4,842.30		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,037		848		851		847		817		21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	5		4		2		4		9		22
23	- NO. OF WET BOTTOM	23									4		23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25			1		1						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26											26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27	4		3		1		4		1		27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	18.00	20.00	26.30	28.50	23.00	25.00	18.00	27.50	27.00	28.50	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30				85.00		80.00					30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32				75.00		75.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33	95.00	97.00	97.40	99.60		97.40	90.10	99.30		98.10	33
34	TESTED, LOW - HIGH	34								87.20			34
35	EST., LOW - HIGH	35		25.00	90.00	97.70		93.00	85.30	95.00		76.60	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39		.95		1.13		.64		12.51		5.31	39
40	SULFUR OIOXIDE (1,000 TONS)	40		26.21		2.88		1.43		15.93		4.28	40
41	NITROGEN OXIDES (1,000 TONS)	41		15.13		3.33		1.53		16.16		3.75	41
42	STACKS: - TOTAL NO.	42		5		2		2		3		3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	225.00	325.00		250.00	150.00	200.00	300.00	400.00	250.00	350.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45		.01		21.37		8.44		110.67		21.03	45
46	SOLD (1,000 TONS) [11]	46		.01						4.30			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50				72.10		48.30					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51											51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52		1,384.00		1,364.09		275.93		2,997.28		688.66	52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54		782.00		193.45		113.20		760.61		327.40	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55				17.50		38.05		81.30		13.08	55
56	REVENUES FROM SALE OF ASH ($1,000)	56		3.90						12.32			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59				17.50		38.06		81.00		13.06	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60		3.90						12.32			60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	O ARTHUR KILL		RW PLATTE		O U.S.B.R. CANAL		R PLATTE		C BOULDER		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		1,302.00		1.32		77.90		11.05		300.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63		1,302.00				70.00				300.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	11.20			1.32		.80		11.05		5.50	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	JUL	DEC			JUN	DEC					65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	84.00	46.00			70.00	39.00					66
67	AT OUTFALL, SUMMER - WINTER	67	97.00	59.00			96.00	64.00					67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68						77.80					68
69	- WINTER	69						73.50					69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71			6.66	1.62		.08	52.75	.45		.61	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		377.47		.08		.02		.16		.10	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73											73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	330.00						128.00		I.70		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76		YES	YES	YES		YES	YES	YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77			PS		ST		PS		ST		77
78	RECEIVING WATER BODY	78					R COLORADO				O LEECHING FIELD		78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	79	10.50		8.80	8.80				8.50		9.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	5.00		420.00	420.00						750.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81		3,150.00									81
82	- ASH SETTLING	82				28,300.00				28,050.00		1,638.00	82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83											83
84	ONCE THROUGH COOLING (SALINE)	84	5	920.00									84
85	COOLING PONDS(S)	85									5	281.75	85
86	COOLING TOWERS(S)	86			4	250.50			4	801.30			86
87	COMBINATION [21]	87					2	75.30					87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1948	1962	1950	1955		1957	1957	1968	1924	1964	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	10.90	14.70	19.70	21.30		15.00	13.00	18.00		10.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		1,302.00		346.00		75.00		1,017.60		467.10	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		1,302.00				77.90					91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92		2,873.50				555.00					92
93	COOLING PONDS ($1,000)	93						53.00				978.00	93
94	COOLING TOWERS ($1,000)	94				755.00				2,185.00			94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95		128.70		58.40		1.53		13.34		1.71	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		23.60		20.00		.08		79.17		.48	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		86.90		1.20		1.51		4.96		.61	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		56.10		3.30		.64		6.43		.59	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	PUBLIC SERVICE CO. OF COLORADO	PUBLIC SERVICE CO. OF OKLAHOMA	PUBLIC SERVICE CO. OF OKLAHOMA	PUBLIC SERVICE CO. OF OKLAHOMA	PUBLIC SERVICE CO. OF OKLAHOMA	1
2							2
3							3
4	NAME OF PLANT	ZUNI	LAWTON	NORTHEASTERN	SOUTHWESTERN	TULSA	4
5	UTILITY-PLANT CODE	406000-1300	406300-0300	406300-0500	406300-0600	406300-0700	5
6	STATE	COLORADO	OKLAHOMA	OKLAHOMA	OKLAHOMA	OKLAHOMA	6
7	COUNTY	DENVER	COMANCHE	ROGERS	CADDO	TULSA	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	036 10	189 11	186 11	189 11	186 11	8
9	PLANT CAPACITY (MW)	115.25	29.50	642.50	483.00	482.00	9
10	ANNUAL GENERATION (MWH) [3]	480,900	1	2,943,400	3,194,400	3,228,300	10
11	PLANT HEAT RATE (BTU/KWH) [3]	13,978		9,984	10,681	11,051	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	55.04					12
13	AVERAGE HEAT CONTENT (BTU/LB)	9,147					13
14	AVERAGE SULFUR CONTENT (%)	.37					14
15	AVERAGE ASH CONTENT (%)	5.80					15
16	AVERAGE MOISTURE CONTENT (%)	25.80					16
17	OIL: CONSUMPTION (1,000 BARRELS)	241.10		2.37	.43	16.01	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	150,235		140,315	138,075	138,000	18
19	AVERAGE SULFUR CONTENT (%)	1.25		.44	.33	.40	19
20	GAS: CONSUMPTION (1,000 MCF)	6,900.00	16.40	29,543.00	32,341.00	34,508.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	848	1,037	994	1,055	1,031	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	3	5	2	4	4	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	1					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	1					27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	15.00 28.50	15.00	7.00 8.00	5.00 8.00	7.00 15.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00					30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	98.10					33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH	81.30					35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.39					39
40	SULFUR DIOXIDE (1,000 TONS)	1.41				.02	40
41	NITROGEN OXIDES (1,000 TONS)	2.29		5.77	6.31	6.76	41
42	STACKS: - TOTAL NO.	3	2	2	4	6	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	45.00 292.00	226.70	183.00	114.00 141.00	175.00 184.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	2.30					45
46	SOLD (1,000 TONS) [11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	89.06					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000) [4]	307.90					52
53	DESULFUPIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	123.90					54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($/,000)	9.84					55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	9.84					59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, D, C, W, M & O EXPL. IN FOOTNOTES)	R PLATTE	W	L OOLOGAH	D FT. COBB RESVR	R ARKANSAS	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	34.60		6.59	6.94	7.08	62
63	AVERAGE RATE OF DISCHARGE (CFS)	33.42		1.65	1.16	1.77	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.18		4.94	5.78	5.31	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	SEP MAR		SEP OEC	AUG JAN	AUG FEB	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	76.00 49.00					66
67	AT OUTFALL, SUMMER - WINTER	90.00 69.00		92.00 76.00	90.00 75.00	82.00 94.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	450.00		74,651.00	2,307.00		68
69	- WINTER	52.00		19,938.00	2,303.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	3.41 7.75		33.39 .01	30.39 .35	31.22 .27	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP			21.96	29.82	30.34	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			9.12	319.16 5.37		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			2.01	18.13 .30		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			39.43 .42	25.80 .15	26.21	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES		YES YES	YES YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	PS	OT	OT	PS	77
78	RECEIVING WATER BODY			C FOUR MILE	R WASHITA		78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	9.40					79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)						83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)	1 75.00	4 29.50	2 642.50	3 483.00	9 482.00	86
87	COMBINATION [21]	1 46.25					87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948 1954	1937 1946	1961 1969	1952 1967	1947 1958	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00 21.30	14.00 19.00	15.50 23.00	17.00 20.80	14.50 17.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	165.00	118.00	742.00	548.20	724.80	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	64.60					91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	107.00					92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)	482.00					94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.66					95
96	COST OF CHEMICAL ADDITIVES ($1,000)	7.52	.20	31.10	36.40	64.90	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	20.41					97
98	COST OF CHEMICAL ADDITIVES ($1,000)	11.63	.40	12.50	10.50	13.30	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	PUBLIC SERVICE CO. OF OKLAHOMA	PUERTO RICO WATER RESOURCES AUTH.	PUERTO RICO WATER RESOURCES AUTH.	PUERTO RICO WATER RESOURCES AUTH.	PUGET SOUND POWER & LIGHT CO.	
NAME OF PLANT	WELEETKA	PALO SECO	SAN JUAN	SOUTH COAST	SHUFFLETON	
UTILITY-PLANT CODE	406300-0800	407700-0100	407700-0200	407700-0300	408000-0400	
STATE	OKLAHOMA	PUERTO RICO	PUERTO RICO	PUERTO RICO	WASHINGTON	
COUNTY	OKFUSKEE		SAN JUAN		KING	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	188 11	244 23	244 23	244 23	229 17	
PLANT CAPACITY (MW)	83.00	645.00	634.50	287.50	86.00	
ANNUAL GENERATION (MWH)[3]	234,900	1,389,900	3,104,700	1,845,500		
PLANT HEAT RATE (BTU/KWH)[3]	15,970	10,535	10,646	9,650		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)							
AVERAGE HEAT CONTENT (BTU/LB)							
AVERAGE SULFUR CONTENT (%)							
AVERAGE ASH CONTENT (%)							
AVERAGE MOISTURE CONTENT (%)							
OIL: CONSUMPTION (1,000 BARRELS)		4,129.10	5,319.00	2,937.70		
AVERAGE HEAT CONTENT (BTU/GAL)		149,901	149,700	152,560		
AVERAGE SULFUR CONTENT (%)		2.18	2.00	2.39		
GAS: CONSUMPTION (1,000 MCF)	3,483.00	2.14				
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,077					

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	6	4	10	4	3		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS							
- NO. WITH ELECTROSTATIC PRECIPITATORS							
- NO. WITH COMBINATION PRECIPITATORS[4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00 15.00	12.00 15.00	12.00 12.20	12.00 15.00	10.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
EST., LOW - HIGH							
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.70	.89	.49		
SULFUR DIOXIDE (1,000 TONS)		30.28	35.69	23.56		
NITROGEN OXIDES (1,000 TONS)	.68	9.13	11.73	6.48		
STACKS: - TOTAL NO.	3	6	11	3	3	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	113.00	196.00 221.60	160.00 191.00	155.00 205.00	148.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		.65	.18			
TOTAL ASH: COLLECTED (1,000 TONS)[10]						
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)					150.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]			62.80			
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R NORTH CANADIAN	B SALT WATER	B SALT WATER	B SALT WATER	L WASHINGTON	
AVERAGE RATE OF WITHDRAWAL (CFS)	1.83	1,004.00	1,300.00	404.18		
AVERAGE RATE OF DISCHARGE (CFS)	.52	1,004.00	1,300.00	404.18		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.31	8.63	11.18	3.48		
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG NOV	AUG FEB	AUG FEB		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		80.00 80.00	80.00 80.00	80.00 80.00		
AT OUTFALL, SUMMER - WINTER	96.00 80.00	95.00 95.00	95.00 95.00	92.00 92.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		1,004.00	838.00			
- WINTER		1,004.00	838.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	4.68 .18		2.75	.38		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	20.61	.08	2.30	80.48		
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.07	.50				
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST				PS	
RECEIVING WATER BODY						
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)					2 87.50	
ONCE THROUGH COOLING (SALINE)		4 565.00	10 568.00	4 253.00		
COOLING POND(S)						
COOLING TOWER(S)	3 83.00					
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948 1955	1960 1970	1951 1969	1958 1963	1929	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	14.50 19.00	15.00	15.00	15.00	15.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	187.20	1,005.60	1,306.00	404.20	360.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		1,400.30	1,306.00	404.00	360.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					500.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)				34.60		
COST OF CHEMICAL ADDITIVES ($1,000)	9.60	6.70	7.70			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)				68.00		
COST OF CHEMICAL ADDITIVES ($1,000)	6.70	7.80	3.70	16.00		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	ROCHESTER GAS & ELECTRIC CORP.	ROCHESTER GAS & ELECTRIC CORP.	ROCHESTER GAS & ELECTRIC CORP.	SALT R. PROJ. AGR IMPR PWR DIST	SALT R. PROJ. AGR IMPR PWR DIST		1
2								2
3								3
4	NAME OF PLANT	ROCHESTER 3	ROCHESTER 7	ROCHESTER 13	AGUA FRIA 2	CROSSCUT		4
5	UTILITY-PLANT CODE	422000-0500	422000-0700	422000-0800	433000-0100	433000-0300		5
6	STATE	NEW YORK	NEW YORK	NEW YORK	ARIZONA	ARIZONA		6
7	COUNTY	MONROE	MONROE	WAYNE	MARICOPA	MARICOPA		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	160 04	160 04	160 04	015 15	015 15		8
9	PLANT CAPACITY (MW)	206.20	252.60	517.00	390.00	30.00		9
10	ANNUAL GENERATION (MWH) [3]	664,002	1,344,400	1,975,000	2,011,000			10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,658	10,661		9,998			11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	466.22	580.87					12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,295	12,246					13
14	AVERAGE SULFUR CONTENT (%)	2.67	2.81					14
15	AVERAGE ASH CONTENT (%)	12.84	12.53					15
16	AVERAGE MOISTURE CONTENT (%)	5.01	5.17					16
17	OIL: CONSUMPTION (1,000 BARRELS)	70.42	16.28		16.86	.02		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,650	137,650		154,330	150,500		18
19	AVERAGE SULFUR CONTENT (%)	.30	.30		.92	.80		19
20	GAS: CONSUMPTION (1,000 MCF)	9.22			18,743.90	15.52		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	538			1,064	1,082		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	7	4		3	6		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS							25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	7	4					26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	25.00 30.00	25.00		7.00 10.00	15.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH							32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	95.00 97.50	97.50					33
34	TESTED, LOW - HIGH	72.80 93.50	89.40 98.80					34
35	EST., LOW - HIGH	94.50						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	6.40	3.84					39
40	SULFUR DIOXIDE (1,000 TONS)	24.47	32.01		.05			40
41	NITROGEN OXIDES (1,000 TONS)	4.35	5.26		3.69			41
42	STACKS: - TOTAL NO.	3	2		6	6		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	234.00 265.00	250.00		120.00 123.00	56.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED 11,000 TONS) [10]	60.10	72.60					45
46	SOLD (1,000 TONS) [11]							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	718.40	712.50					51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	188.20	291.20		264.00	3.33		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	153.00	220.00					55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	153.00	220.00					59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R GENESEE	L ONTARIO	L ONTARIO	OW IRRIG. CANAL	O CANAL		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	146.79	234.00	755.00	18.00			62
63	AVERAGE RATE OF DISCHARGE (CFS)	145.30	234.00	755.00	7.00			63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.26 1.49	2.01	6.49	11.00			64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL DEC	JUL DEC		AUG DEC			65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 44.00	71.00 47.00	69.00 48.00	80.00 60.00			66
67	AT OUTFALL, SUMMER - WINTER	97.00 59.00	96.00 70.00	86.00 67.00	87.00 87.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,026.00			5.00			68
69	- WINTER	5,565.00			2.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]			C				70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.21	.17	.80	23.73 .27	.01		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	43.89	.09		5.48			72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	196.71			12.78			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.12	8.00	33.00	45.63			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES YES	YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	PS	ST	ST	ST		77
78	RECEIVING WATER BODY							78
79	POND DISCHARGE [19] PH, BOILER BLOWDOWN - ASH SETTLING		8.42					79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		8.87					80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82	- ASH SETTLING		112,700.00					82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	10 206.20	4 252.60	1 490.00				83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING POND(S)							85
86	COOLING TOWER(S)				3 390.40	3 22.50		86
87	COMBINATIONS [21]					1 7.50		87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1914 1959	1949 1957	1968	1957 1961	1941 1949		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	19.60 20.00	19.60	19.60	13.20 23.20	16.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	288.60	255.00	844.40	517.40	116.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	288.60	259.00	844.40		12.60		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	349.70	1,587.00	6,983.00				92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)				2,871.00	295.60		94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	100.00	34.00	49.00	72.40	.96		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	1.00	1.00	1.00	35.50			96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	117.00	33.00	17.00	44.30	1.01		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	32.00	11.00	1.00	1.93			98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	SALT R. PROJ. AGR IMPR PWR DIST	SAN DIEGO GAS & ELECTRIC CO.	SAN DIEGO GAS & ELECTRIC CO.	SAN DIEGO GAS & ELECTRIC CO.	SAN DIEGO GAS & ELECTRIC CO.	
4	NAME OF PLANT	KYRENE	ENCINA	SILVER GATE	SOUTH BAY	STATION B	
5	UTILITY-PLANT CODE	433000-0600	433500-0300	433500-0500	433500-0600	433500-0700	
6	STATE	ARIZONA	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	
7	COUNTY	MARICOPA	SAN DIEGO	SAN DIEGO	SAN DIEGO	SAN DIEGO	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	015 15	029 18	029 18	029 18	029 18	
9	PLANT CAPACITY (MW)	108.00	331.00	247.00	474.00	96.00	
10	ANNUAL GENERATION (MWH) [3]	125,900	1,850,100	637,100	2,652,400	128,300	
11	PLANT HEAT RATE (BTU/KWH) [3]	13,785	10,536	12,660	9,845	18,096	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)							12
13	AVERAGE HEAT CONTENT (BTU/LB)							13
14	AVERAGE SULFUR CONTENT (%)							14
15	AVERAGE ASH CONTENT (%)							15
16	AVERAGE MOISTURE CONTENT (%)							16
17	OIL: CONSUMPTION (1,000 BARRELS)	.52	870.00	158.00	1,199.00	49.00		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	152,518	151,709	151,539	151,182	151,715		18
19	AVERAGE SULFUR CONTENT (%)	1.25	.88	1.55	1.12	1.57		19
20	GAS: CONSUMPTION (1,000 MCF)	1,607.72	13,035.00	6,654.00	17,961.00	2,249.00		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,081	1,070	1,061	1,062	1,061		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	3	6	3	10		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS							25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS							26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	13.00 15.00	15.00 18.00	15.00	8.00 9.00	10.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH							32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH							33
34	TESTED, LOW - HIGH							34
35	EST., LOW - HIGH							35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.15	.03	.20	.01			39
40	SULFUR OIOXIDE (1,000 TONS)	2.57	.82	4.51	.26			40
41	NITROGEN OXIDES (1,000 TONS)	.31	4.46	1.65	6.15	.55		41
42	STACKS: - TOTAL NO.	2	3	6	3	10		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	75.75 120.00	173.00	115.75 124.00	174.50	175.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]							45
46	SOLD (1,000 TONS) [11]							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							50
51	ELECTROSTATIC PRECIPITATORS ($1,000)							51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	168.30	42.00	17.00	41.00	76.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)							55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]							59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	OW CANAL	O PACIFIC OCEAN	B SAN DIEGO	B SAN DIEGO	B SAN DIEGO		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	152.20	275.00	216.00	530.00	121.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	148.10	275.00	216.00	530.00	121.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	4.10	2.37 1.86	4.56	1.04			64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	74.00	78.00 62.00	82.00 67.00	85.00 66.00	82.00 64.00		66
67	AT OUTFALL, SUMMER - WINTER	77.00	101.00 96.00	97.00 83.00	116.00 90.00	94.00 80.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	450.00						68
69	- WINTER							69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.12	.13	.19	.38	2.01		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.01	.09 .11	.08 .10	.06	.61		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	10.34	8.85					73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.44	42.00	66.00	39.00	.45		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES YES	YES YES	YES YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, CT [18]	ST	ST	PS	PS	PS		77
78	RECEIVING WATER BODY	O CESSPOOL						78
79	POND DISCHARGE [19] PH, BOILER BLOWDOWN - ASH SETTLING							79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82	- ASH SETTLING							82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)							83
84	ONCE THROUGH COOLING (SALINE)		3 330.75	4 247.00	3 473.60	4 93.00		84
85	COOLING POND(S)							85
86	COOLING TOWER(S)							86
87	COMBINATION [21]	2 108.00						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1952 1954	1954 1958	1943 1952	1960 1964	1922 1937		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	21.00 23.60	21.90	16.00	14.00 18.00	17.50		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	149.80	320.70	332.70	580.60	270.90		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	149.80	330.60	332.70	618.00	270.90		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	356.92	5,271.00	1,253.00	2,762.00	1,126.00		92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)	471.33						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		32.60	59.90	18.70	28.80		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	3.17	5.20	8.30	6.00	.05		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	28.65	34.20	28.70	35.50	41.70		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.06	2.00	.60	1.30	4.60		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	SAVANNAH ELECTRIC & POWER CO.	SAVANNAH ELECTRIC & POWER CO.	SEATTLE DEPT. OF LIGHTING	SIERRA PACIFIC POWER CO.	SIERRA PACIFIC POWER CO.	
4	NAME OF PLANT	PORT WENTWORTH	RIVERSIDE	LAKE UNION	FORT CHURCHILL	TRACY	
5	UTILITY-PLANT CODE	435500-0100	435500-0200	437000-0600	443500-0400	443500-1200	
6	STATE	GEORGIA	GEORGIA	WASHINGTON	NEVADA	NEVADA	
7	COUNTY	CHATHAM	CHATHAM	KING	LYON	STOREY	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	058 03	058 03	229 17	148 16	148 16	
9	PLANT CAPACITY (MW)	207.00	118.50	30.00	110.00	133.00	
10	ANNUAL GENERATION (MWH) [3]	1,220,800	405,900		823,400	516,800	
11	PLANT HEAT RATE (BTU/KWH) [3]	10,560	13,027		10,206	11,610	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)						
13	AVERAGE HEAT CONTENT (BTU/LB)						
14	AVERAGE SULFUR CONTENT (%)						
15	AVERAGE ASH CONTENT (%)						
16	AVERAGE MOISTURE CONTENT (%)						
17	OIL: CONSUMPTION (1,000 BARRELS)	912.50	582.70	.16	1.10	60.00	
18	AVERAGE HEAT CONTENT (BTU/GAL)	147,420	147,359	143,087	150,005	153,624	
19	AVERAGE SULFUR CONTENT (%)	2.50	2.50	.10	.80	1.10	
20	GAS: CONSUMPTION (1,000 MCF)	7,042.10	1,599.20		7,935.20	5,354.90	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,047	1,044		1,057	1,057	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	6	14	1	2		
23	- NO. OF WET BOTTOM	3						
24	- NO. WITH FLY ASH REINJECTION							
25	- NO. WITH MECHANICAL PRECIPITATORS	3						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS							
27	- NO. WITH COMBINATION PRECIPITATORS [4]							
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	18.00 20.00	18.00 35.00	14.00	7.00	10.00		
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	86.10 92.50						
31	TESTED, LOW - HIGH							
32	ESTIMATED, LOW - HIGH	86.10 92.50						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH							
34	TESTED, LOW - HIGH							
35	EST., LOW - HIGH							
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.02	.10			.01		
40	SULFUR DIOXIDE (1,000 TONS)	7.65	4.89			.22		
41	NITROGEN OXIDES (1,000 TONS)	3.39	1.60		1.55	1.18		
42	STACKS: - TOTAL NO.	3	5	7	1	2		
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	198.00 175.00	254.00	156.00	162.00	200.00		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	.04						
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	3.94						
46	SOLD (1,000 TONS) [11]							
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	161.40						
51	ELECTROSTATIC PRECIPITATORS ($1,000)							
52	COMBINATION PRECIPITATORS ($1,000) [4]							
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)	101.60	95.60		18.00	103.00		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	1.40						
56	REVENUES FROM SALE OF ASH ($1,000)							
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	25.50						
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SAVANNAH	R SAVANNAH	L UNION	W	R TRUCKEE		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	274.80	154.00		8.00	70.90		
63	AVERAGE RATE OF DISCHARGE (CFS)	274.80	154.00		5.10	70.90		
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	2.36	1.32		2.90			
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	SEP JAN	SEP JAN	SEP OEC	AUG OEC	AUG OEC		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00 54.00	84.00 55.00	68.00 50.00	92.00 56.00	69.40 38.60		
67	AT OUTFALL, SUMMER - WINTER	96.00 68.00	98.00 62.00	90.00 70.00		100.80 71.40		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	12,500.00	12,500.00			616.00		
69	- WINTER	12,500.00	12,500.00			430.00		
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CM [16]							
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.21	.75		.18	.45		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.02	1.50		25.36	28.64		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP							
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP [17]	52.00			7.69	.82		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES		YES	YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	PS	PS	ST	ST		
78	RECEIVING WATER BODY	R SAVANNAH						
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	9.00 6.70						
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
82	- ASH SETTLING							

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)			3 30.00		1 53.00		
84	ONCE THROUGH COOLING (SALINE)	3 207.00	5 118.50					
85	COOLING PONDS				1 110.00			
86	COOLING TOWERS					1 80.00		
87	COMBINATIONS [21]							
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1957 1965	1926 1955	1914 1921	1968	1965		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00 18.00	10.00 15.00	27.00	21.00	28.00 38.00		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	675.08	331.00	790.20	103.00	126.60		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)	274.93	77.00	790.20		126.60		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,048.70	506.60			118.00		
93	COOLING PONDS ($1,000)				273.00	339.00		
94	COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	210.30	3.00	.30				
96	COST OF CHEMICAL ADDITIVES ($1,000)	8.30	4.20		1.90	.20		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	.50	6.30	.20				
98	COST OF CHEMICAL ADDITIVES ($1,000)	4.50	1.40		4.00	3.00		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.		1
4	NAME OF PLANT	CANADYS	HAGOOD	MCMEEKIN	PARR	URQUHART		4
5	UTILITY-PLANT CODE	447500-0400	447500-0700	447500-0900	447500-1200	447500-1600		5
6	STATE	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA		6
7	COUNTY	COLLETON	CHARLESTON	RICHLAND	FAIRFIELD	AIKEN		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	058 03	199 03	200 03	200 03	053 03		8
9	PLANT CAPACITY (MW)	489.60	97.75	275.00	72.50	250.00		9
10	ANNUAL GENERATION (MWH) [3]	2,413,200	632,700	1,709,900	99,000	1,775,900		10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,189	12,458	9,306	20,131	10,250		11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	719.20		281.60	82.40	253.90		12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,525		12,139	12,510	12,363		13
14	AVERAGE SULFUR CONTENT (%)	1.49		1.21	1.18	1.17		14
15	AVERAGE ASH CONTENT (%)	12.06		12.10	11.26	12.51		15
16	AVERAGE MOISTURE CONTENT (%)	4.13		5.39	4.31	5.30		16
17	OIL: CONSUMPTION (1,000 BARRELS)	13.48	673.60	2.20	3.19	2.10		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,954	150,563	138,564	138,941	138,526		18
19	AVERAGE SULFUR CONTENT (%)	.10	2.73	.06	.06	.10		19
20	GAS: CONSUMPTION (1,000 MCF)	6,213.60	3,107.90	7,948.40		11,400.80		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,045	1,044	1,045		1,045		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	3	2	7	3		22
23	- NO. OF WET BOTTOM	3		2	2	3		23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS	3		2		1		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1		1		3		26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	22.50	10.00 15.00	22.50	25.00	22.50		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	83.50 84.00		84.00		90.00		30
31	TESTED, LOW - HIGH	67.60 75.00		51.80				31
32	ESTIMATED, LOW - HIGH	67.60 75.00		51.80				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	99.60		99.90		99.60		33
34	TESTED, LOW - HIGH					99.00 99.12		34
35	EST., LOW - HIGH	99.60		99.90		99.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	7.40	.11	5.09	7.60	.21		39
40	SULFUR OIOXIDE (1,000 TONS)	21.00	6.17	6.68	1.91	5.82		40
41	NITROGEN OXIDES (1,000 TONS)	12.03	2.09	5.78	.83	6.03		41
42	STACKS: - TOTAL NO.	3	2	2	4	3		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	200.00	125.00	250.00	169.00	200.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	92.12	.83	26.83	9.10	32.80		45
46	SOLD (1,000 TONS) [11]	.07				.54		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	292.19		176.32		98.05		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	719.41		476.70		1,196.75		51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	263.39	53.74	137.56		214.18		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		.70			8.60		55
56	REVENUES FROM SALE OF ASH ($1,000)					1.60		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		.70			8.30		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					1.60		60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R EDISTO	R ASHLEY	L MURRAY	R BROAD	R SAVANNAH		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	559.07	210.70	179.30	167.00	294.40		62
63	AVERAGE RATE OF DISCHARGE (CFS)	559.07	210.70	177.60	167.00	292.90		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]		1.81	1.53 .70	1.44	2.53 1.50		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG JAN	JUN MAR	AUG JAN	AUG JAN	AUG JAN		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 50.00	87.00 48.60	86.00 44.00	85.00 38.00	72.00 53.00		66
67	AT OUTFALL, SUMMER - WINTER	97.00 57.00	103.00 54.50	75.00 61.00	90.00 50.00	93.00 70.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,760.00			2,781.00	6,659.00		68
69	- WINTER	3,130.00			6,707.00	6,825.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.44		.50			71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	242.71	9.30	31.80	10.40			72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP							73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	26.90		16.45	1.50	76.90		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	30.75			.05	13.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	OT	ST	SW	SW		77
78	RECEIVING WATER BODY [19]		R ASHLEY		R BROAD	R SAVANNAH		78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	5.50 5.50		7.20				79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	180.00 180.00		125.00				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	13,000.00						81
82	- ASH SETTLING	31,000.00		6,620.00				82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)			2 293.60	3 72.50	3 250.00		83
84	ONCE THROUGH COOLING (SALINE)		3 97.76					84
85	COOLING PONDS(S)							85
86	COOLING TOWER(S)							86
87	COMBINATIONS [21]	3 489.60						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1962 1967	1947 1951	1958	1925 1929	1953 1955		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	19.00	19.00	20.00		24.00 26.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	499.31	201.32	252.00	264.00	290.70		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	499.31	204.99	252.00	264.30	294.40		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	886.00	37.00	140.14		182.36		92
93	COOLING PONDS ($1,000)	1,631.25						93
94	COOLING TOWERS ($1,000)							94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		14.20			2.19		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	5.00				3.67		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		3.80			15.35		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	46.00	1.60	7.50	2.77	8.13		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA PUBLIC SERVICE AUTH.	SOUTH CAROLINA PUBLIC SERVICE AUTH.	SOUTH MISSISSIPPI ELEC PWR ASSOC	SOUTHERN CALIFORNIA EDISON CO.	
NAME OF PLANT	WATEREE	GRAINGER	JEFFERIES	MOSELLE	ALAMITOS	
UTILITY-PLANT CODE	447500-1700	448000-0100	448000-0200	448300-0100	450500-0100	
STATE	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	MISSISSIPPI	CALIFORNIA	
COUNTY	RICHLAND	HORRY	BERKELEY	JONES	LOS ANGELES	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	200 03	204 03	199 03	005 03	024 18	
PLANT CAPACITY (MW)	385.90	163.20	445.60	177.00	1,982.40	
ANNUAL GENERATION (MWH) [3]	622,500	1,090,600	393,300	195,400	9,466,200	
PLANT HEAT RATE (BTU/KWH) [3]	9,216	10,434	10,098	12,789	9,682	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	278.02	376.48	592.97			
AVERAGE HEAT CONTENT (BTU/LB)	11,844	11,066	11,100			
AVERAGE SULFUR CONTENT (%)	1.07	1.25	1.25			
AVERAGE ASH CONTENT (%)	13.65	17.24	16.40			
AVERAGE MOISTURE CONTENT (%)	5.90	6.60	6.23			
OIL: CONSUMPTION (1,000 BARRELS)	93.23		1,237.42	5.60	3,611.00	
AVERAGE HEAT CONTENT (BTU/GAL)	138,000		147,319	135,000	144,939	
AVERAGE SULFUR CONTENT (%)	.10		2.40	.10	.41	
GAS: CONSUMPTION (1,000 MCF)				2,467.00	64,916.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,000	1,068	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	2	4	3	6	
- NO. OF WET BOTTOM	1	2				
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS			2		1	
- NO. WITH ELECTROSTATIC PRECIPITATORS	1	2	2			
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	23.00	13.00 23.00	8.00	10.00 13.00	
MECHANICAL PRECIPITATOR EFFICIENCY : OESIGN, LOW - HIGH			85.00		99.50	
TESTED, LOW - HIGH					99.90	
ESTIMATED, LOW - HIGH			80.00		99.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: OESIGN, LOW - HIGH	99.00	95.00	95.00			
TESTED, LOW - HIGH		97.90				
EST., LOW - HIGH	99.00	95.00	95.00			
OESULFURIZATION SYSTEM EFFICIENCY : OESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.25	2.11	4.17		.49	
SULFUR OIOXIOE (1,000 TONS)	5.86	9.22	24.49		4.97	
NITROGEN OXIOES (1,000 TONS)	4.38	5.65	8.07	.49	20.62	
STACKS: - TOTAL NO.	1	2	6	3	6	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	300.00	300.00	175.00 300.00	100.00	200.00 201.50	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	38.92	65.00	97.20		.30	
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACIO COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACIO SOLO (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			52.00		1,600.00	
ELECTROSTATIC PRECIPITATORS ($1,000)	736.60	423.00	354.00			
COMBINATION PRECIPITATORS ($1,000) [4]						
OESULFUPIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	382.46	338.00	632.00		481.00	
ASH COLLECTION AND OISPOSAL EXPENSES ($1,000)		27.20	9.30		15.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND OISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		27.20	9.30		35.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R WATEREE	R WACCAMAW	R COOPER	W	O PACIFIC OCEAN	
AVERAGE RATE OF WITHDRAWAL (CFS)	386.00	194.00	558.00		1,970.00	
AVERAGE RATE OF OISCHARGE (CFS)	385.30	194.00	558.00		1,970.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATEO - REPORTED [14]	.76		4.80		16.94	
PEAK LOAD MONTH : SUMMER - WINTER [15]		JUL JAN	JUL FEB	OEC	AUG OEC	
MAX. TEMP. OURING PEAK MONTH (OEG. F.): AT OIVERSION, SUMMER - WINTER		82.00 52.00	85.00 48.00		70.00 61.00	
AT OUTFALL, SUMMER - WINTER		90.00 57.00	93.00 54.00			
AVE. FLOW IN RECEIVING BOUY OURING PEAK MONTH (CFS): SUMMER		625.00	11,205.00		UNLIMITED	
- WINTER		2,302.00	21,200.00		UNLIMITED	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]	C					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.75	.10	.30	.15	.10	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	260.19	47.85	9.00	.85		
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP	24.25		30.00			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.68	10.00		.68	615.45	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES	YES	YES YES	YES	
SEWAGE OISPOSAL: METHOD PS, ST, SW, OT [18]		PS	OT	OT		
RECEIVING WATER BODY	R WATEREE		R COOPER	R LEAF	R SAN GABRIEL	
POND OISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING [19]	6.40	6.50			9.00	
SUSPENDED SOLIOS (PPM), BOILER BLOWDOWN - ASH SETTLING	94.00	80.00			250.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					1,220.00	
- ASH SETTLING		47,000.00				

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)			4 445.60			
ONCE THROUGH COOLING (SALINE)					6 1,982.40	
COOLING POND(S)						
COOLING TOWER(S)	1 385.90			3 177.00		
COMBINATIONS [21]		2 163.20				
COOLING SYSTEM, YEAR OF INSTALLATION: OLOEST SYSTEM - NEWEST SYSTEM	1970	1966	1953 1970	1969	1956 1966	
OESIGN: TEMP. RISE ACROSS CONOENSERS (OEG. F), SMALLEST - LARGEST [22]	18.00	19.00	13.00 18.00	13.00	18.20 22.00	
TOTAL RATE OF FLOW THROUGH ALL CONOENSERS (CFS)	332.00	180.00	550.00	280.80	1,910.60	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	379.00	194.00	550.00		1,899.40	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	318.90	1,132.12	1,305.00		4,693.00
COOLING PONDS ($1,000)		300.00			
COOLING TOWERS ($1,000)	1,467.10			300.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		34.00	2.00	65.00	59.80
COST OF CHEMICAL ADDITIVES ($1,000)	1.00	2.00		3.00	27.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		13.00	29.00	30.00	26.30
COST OF CHEMICAL ADDITIVES ($1,000)	26.00	7.00	15.00	.30	10.80

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	COOL WATER	EL SEGUNDO	ETIWANDA	HIGHGROVE	HUNTINGTON BEACH	4
5	UTILITY-PLANT CODE	5	450500-1400	450500-1500	450500-1600	450500-2000	450500-2100	5
6	STATE	6	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	6
7	COUNTY	7	SAN BERNARDINO	LOS ANGELES	SAN BERNARDINO	SAN BERNARDINO	ORANGE	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	033 18	024 18	024 18	024 18	024 18	8
9	PLANT CAPACITY (MW)	9	146.00	996.50	911.00	169.00	870.40	9
10	ANNUAL GENERATION (MWH) [3]	10	726,200	5,137,600	4,762,100	50,100	4,252,400	10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	10,380	9,795	10,201	14,167	9,797	11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12						12
13	AVERAGE HEAT CONTENT (BTU/LB)	13						13
14	AVERAGE SULFUR CONTENT (%)	14						14
15	AVERAGE ASH CONTENT (%)	15						15
16	AVERAGE MOISTURE CONTENT (%)	16						16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	.75	2,038.46	2,007.50	.23	1,653.00	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	150,182	143,311	144,679	142,857	144,633	18
19	AVERAGE SULFUR CONTENT (%)	19	.66	.21	.24	.48	.20	19
20	GAS: CONSUMPTION (1,000 MCF)	20	6,893.80	35,412.58	34,008.00	671.42	29,437.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,093	1,057	1,065	1,056	1,067	21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	2	4	4	4	4	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	5.00	10.00	10.00 16.00	17.00	15.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30						30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33						33
34	TESTED, LOW - HIGH	34						34
35	EST., LOW - HIGH	35						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39		.34	.34		.28	39
40	SULFUR DIOXIDE (1,000 TONS)	40		1.44	1.62		1.11	40
41	NITROGEN OXIDES (1,000 TONS)	41	1.35	11.40	11.06	.13	9.39	41
42	STACKS: - TOTAL NO.	42	2	4	4	4	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	134.00 146.00	200.00	176.00 199.00	70.00 99.00	203.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45						45
46	SOLD (1,000 TONS) [11]	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51						51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52						52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54	11.60	223.80	214.00	61.30	169.40	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55						55
56	REVENUES FROM SALE OF ASH ($1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59		17.00	29.80	20.17	42.55	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60						60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	W	8 SANTA MONICA	M MFT. AQUEDUCT	W	O SAN PEDRO CHNL	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	2.49	888.00	11.60	2.49	633.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	.70	888.00	1.70	.02	633.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	1.79	7.64	9.90	2.47	5.44	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	AUG JAN	JUL OEC	AUG JAN	SEP JAN		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66						66
67	AT OUTFALL, SUMMER - WINTER	67						67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		UNLIMITED			UNLIMITED	68
69	- WINTER	69		UNLIMITED			UNLIMITED	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	17.50 .04	.23	.13	2.53	.12	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	25.00	.03	.01	38.77	.01	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	5.50	112.00	70.00		28.61	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES YES	YES	YES YES	YES YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	ST	PS	ST	ST	PS	77
78	RECEIVING WATER BODY	78	O SEEPAGE PIT		O SEEPAGE PIT	O SEEPAGE PIT		78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79		9.50				79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81		460.00				81
82	- ASH SETTLING	82						82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING [19]: ONCE THROUGH COOLING (FRESH)	83						83
84	ONCE THROUGH COOLING (SALINE)	84		4 996.50			4 870.40	84
85	COOLING POND(S)	85						85
86	COOLING TOWER(S)	86	2 146.88		4 911.00	4 169.00		86
87	COMBINATIONS [21]	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1961 1964	1954 1963	1953 1963	1952 1955	1958 1961	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	14.00	22.00 23.65	19.00 21.00	15.50	23.00 24.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	191.40	888.00	870.00	266.00	755.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)	91		888.00			755.00	91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92		563.40			703.00	92
93	COOLING PONDS ($1,000)	93						93
94	COOLING TOWERS ($1,000)	94	641.80		1,592.00	866.00		94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	12.20	35.66	389.00	20.34	92.30	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	23.60	8.03	75.00	2.04	6.37	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		3.30	12.50	15.03	132.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	2.60	.35	6.20	7.19	1.83	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	
NAME OF PLANT	LONG BEACH	MANDALAY	REDONDO	SAN BERNARDINO	SAN ONOFRE	
UTILITY-PLANT CODE	450500-2700	450500-3100	450500-3900	450500-4100	450500-4300	
STATE	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	
COUNTY	LOS ANGELES	VENTURA	LOS ANGELES	SAN BERNARDINO	SAN DIEGO	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	024 18	024 18	024 18	024 18	029 18	
PLANT CAPACITY (MW)	180.00	435.20	1,579.45	130.56	450.00	
ANNUAL GENERATION (MWH)[3]		3,082,400	7,359,000	592,600	2,447,300	
PLANT HEAT RATE (BTU/KWH)[3]		9,512	9,739	10,427		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)		4.00	2,462.06	72.71		
AVERAGE HEAT CONTENT (BTU/GAL)		144,800	144,046	147,035		
AVERAGE SULFUR CONTENT (%)		.19	.21	.72		
GAS: CONSUMPTION (1,000 MCF)	40.21	27,265.00	53,485.34	5,416.95		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,072	1,062	1,061	1,057		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	7	2	11	2		
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00	4.00	10.00 12.50	4.75		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)			.41	.01		
SULFUR OIOXIDE (1,000 TONS)			1.72	.18		
NITROGEN OXIDES (1,000 TONS)	.01	5.33	15.83	1.22		
STACKS: - TOTAL NO.	4	1	8	2		
- HEIGHT (FEET), LOWEST - HIGHEST[8]	247.50	200.00	200.00 201.50	130.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]						
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	98.60	92.00	563.30	10.68		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)			30.00	149.30		
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O PACIFIC OCEAN	O SNTA BARB CHNL	O PACIFIC OCEAN	W	O PACIFIC OCEAN	
AVERAGE RATE OF WITHDRAWAL (CFS)	5.00	384.00	1,710.45	2.05	793.27	
AVERAGE RATE OF DISCHARGE (CFS)	5.00	384.00	1,710.45	.75	793.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.04	3.30	14.71	1.30 6.82	.27	
PEAK LOAD MONTH : SUMMER - WINTER[15]		AUG DEC	AUG DEC	NOV	JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER						
AT OUTFALL, SUMMER - WINTER						
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	UNLIMITED	UNLIMITED	UNLIMITED	.94	UNLIMITED	
- WINTER	UNLIMITED	UNLIMITED	UNLIMITED	.93	UNLIMITED	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.07	.30	.21	.05	.08	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.02	.05	.33			
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP				5.50		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP						
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES YES	YES YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	PS	ST	OT	
RECEIVING WATER BODY	O CERRITOS CHANL	O SEEPAGE PIT			O PACIFIC OCEAN	
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING			7.50			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	2 180.00	2 435.20	8 1,579.45		1 450.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)				2 130.56		
COOLING TOWER(S)						
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1951	1959	1948 1967	1957 1958	1966	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	20.00	23.00	20.00 22.00	16.10	18.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	712.00	384.00	1,735.20	173.00	793.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	712.00	394.00	1,733.00		793.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		1,216.00	8,164.00		6,847.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)				369.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	3.61	93.00	55.40	7.40	53.83	
COST OF CHEMICAL ADDITIVES ($1,000)		6.00	.11	19.49	9.75	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.16	23.00	109.37	11.01		
COST OF CHEMICAL ADDITIVES ($1,000)	3.10	1.00	5.60	2.56		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN ELECTRIC GENERATING CO.	SOUTHERN INDIANA G. E. CO.	SOUTHERN INDIANA G. E. CO.	SOUTHWEST PUBLIC SERVICE CO.	
2							
3		MOHAVE	GASTON	CULLEY	OHIO RIVER	CARLSBAD	
4	NAME OF PLANT	450500-4500	451000-0100	452000-0100	452000-0300	453000-0200	
5	UTILITY-PLANT CODE	NEVADA	ALABAMA	INDIANA	INDIANA	NEW MEXICO	
6	STATE	CLARK	SHELBY	WARRICK	VANDERBURGH	EDDY	
7	COUNTY	013 16	004 03	077 05	077 05	155 13	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	1,510.00	1,000.00	153.70	121.50	44.30	
9	PLANT CAPACITY (MW)		8,060,000	371,900	372,000	151,700	
10	ANNUAL GENERATION (MWH) 3/		9,423	14,966	14,966	14,371	
11	PLANT HEAT RATE (BTU/KWH) 3/						

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	4.59	3,245.00	443.60	268.00		
13	AVERAGE HEAT CONTENT (BTU/LB)	11,665	11,700	10,620	10,383		
14	AVERAGE SULFUR CONTENT (%)	.43	.97	4.15	5.18		
15	AVERAGE ASH CONTENT (%)	13.47	14.16	15.76	16.25		
16	AVERAGE MOISTURE CONTENT (%)	12.91	7.24	11.93	12.51		
17	OIL: CONSUMPTION (1,000 BARRELS)		4.25				
18	AVERAGE HEAT CONTENT (BTU/GAL)		136,500				
19	AVERAGE SULFUR CONTENT (%)		.21				
20	GAS: CONSUMPTION (1,000 MCF)	570.70				2,180.00	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,088				1,000	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.		4	2	8	5	
23	- NO. OF WET BOTTOM			2			
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS			2	4		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		3				
27	- NO. WITH COMBINATION PRECIPITATORS 4/		1				
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/		23.00	24.00 26.00	5.00 6.00	10.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			85.00	76.00		
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH			85.00	76.00		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		95.00 99.00				
34	TESTED, LOW - HIGH		42.00 95.50				
35	EST., LOW - HIGH	97.00	40.00 84.00				
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.01	115.02	6.82	11.13		
40	SULFUR DIOXIDE (1,000 TONS)	.04	61.70	36.08	27.21		
41	NITROGEN OXIDES (1,000 TONS)	.15	29.21	6.65	2.37	.43	
42	STACKS: - TOTAL NO.		4	2	3	5	
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/		250.00 249.00	276.00	250.00	53.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/		371.50	61.40	43.40		
46	SOLD (1,000 TONS) 11/		32.50				
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			98.00	39.00		
51	ELECTROSTATIC PRECIPITATORS ($1,000)						
52	COMBINATION PRECIPITATORS ($1,000) 4/						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)		642.00	164.00	153.00	9.35	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		88.00	47.00	11.00		
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/		88.00	47.00	11.00		
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)		R COOSA	R OHIO	R OHIO	R PECOS	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	18.70	1,420.00	210.30	200.00	85.00	
63	AVERAGE RATE OF DISCHARGE (CFS)		1,419.69	210.30	200.00	85.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	18.70	12.21 .31	1.81	1.72	.41	
65	PEAK LOAD MONTH : SUMMER - WINTER 15/		AUG JAN	JUL JAN	JUL MAR	AUG FEB	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		95.00 58.00	85.00 39.00	85.00 51.00	83.00 45.00	
67	AT OUTFALL, SUMMER - WINTER		112.00 78.00	101.00 66.00	100.00 69.00	84.00 55.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		4,393.00	44,000.00	44,000.00	7.00	
69	- WINTER		17,483.00	190,000.00	290,000.00	6.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, D, OTH 16/						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP			.10	3.75	.28	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		86.00	13.75	.30	.10	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			6.00	6.00		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		22.00	.91			
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.25	1.35	14.00	9.00	.85	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH 18/		ST/OT	ST	PS	PS	
78	RECEIVING WATER BODY		P COOSA	P OHIO			
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING		10.20	10.50 11.00	11.00 9.00		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		5.00	90.00 550.00	500.00 300.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			693.42	.80		
82	- ASH SETTLING		315,000.00		700.00		

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)		4 1,000.00	2 153.70	7 121.50		
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)						
86	COOLING TOWER(S)					3 44.30	
87	COMBINATION 21/						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM		1960 1962	1955 1966	1928 1950	1930 1949	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/		12.98 14.47	13.30 18.10	15.00	12.00 13.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		1,286.00	241.77	686.00	131.50	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		1,420.00	254.50	345.00		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		5,898.00	688.00	154.60		
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)					396.60	

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		3.00	25.00	80.00	31.00	
96	COST OF CHEMICAL ADDITIVES ($1,000)			2.02	1.00	.19	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)			12.40	20.00	12.00	
98	COST OF CHEMICAL ADDITIVES ($1,000)			7.58	3.00	1.10	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	1
2							2
3							3
4	NAME OF PLANT	CUNNINGHAM	OENVER CITY	EAST PLANT	MOORE	NICHOLS	4
5	UTILITY-PLANT CODE	453000-0400	453000-0500	453000-0600	453000-1000	453000-1100	5
6	STATE	NEW MEXICO	TEXAS	TEXAS	TEXAS	TEXAS	6
7	COUNTY	LEA	YOAKUM	POTTER	MOORE COUNTY	POTTER	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	155 13	211 12	211 11	211 11	211 11	8
9	PLANT CAPACITY (MW)	265.40	87.50	71.00	68.20	474.77	9
10	ANNUAL GENERATION (MWH) [3]	1,343,600	418,400	295,200	387,000	2,048,700	10
11	PLANT HEAT RATE (BTU/KWH) [3]	9,936	12,751	13,915	12,178	10,148	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)							12
13	AVERAGE HEAT CONTENT (BTU/LB)							13
14	AVERAGE SULFUR CONTENT (%)							14
15	AVERAGE ASH CONTENT (%)							15
16	AVERAGE MOISTURE CONTENT (%)							16
17	OIL: CONSUMPTION (1,000 BARRELS)							17
18	AVERAGE HEAT CONTENT (BTU/GAL)							18
19	AVERAGE SULFUR CONTENT (%)							19
20	GAS: CONSUMPTION (1,000 MCF)	13,344.00	5,127.00	4,509.00	5,094.00	22,475.00		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	1,040	911	925	925		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	4	7	2	3		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS							25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS							26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00	10.00	2.50 5.00	10.00	10.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH							32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH							33
34	TESTED, LOW - HIGH							34
35	EST., LOW - HIGH							35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)							39
40	SULFUR DIOXIDE (1,000 TONS)							40
41	NITROGEN OXIDES (1,000 TONS)	2.60	1.00	.88	.99	4.38		41
42	STACKS: - TOTAL NO.	2	6	5	2	3		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	136.00 146.00	57.00 96.00	50.00 80.00	58.00 97.00	160.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]							45
46	SOLD (1,000 TONS) [11]							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							50
51	ELECTROSTATIC PRECIPITATORS ($1,000)							51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)							54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	36.60	22.60	13.00	10.98	61.00		55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]							59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	W	W	W	O SEWAGE EFFLNT.		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	3.41	1.70	1.13	1.25	5 63		62
63	AVERAGE RATE OF DISCHARGE (CFS)	.68	.76	.34	.25	1.13		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	2.73	.94	.79	1.00	4 50		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]							65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER							66
67	AT OUTFALL, SUMMER - WINTER							67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER							68
69	- WINTER							69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT [16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.34	.22	.16	.17	.67		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.03	.10	.02	15.70		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	8.38	14.83		7.18	1,338.65		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					116.12		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	5.61	3.20	1.83	1.56	86.44		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES YES	YES YES	YES YES	YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	PS	ST	ST		77
78	RECEIVING WATER BODY							78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING							79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82	- ASH SETTLING							82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)							83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING POND(S)							85
86	COOLING TOWER(S)	2 265.40	4 87.50	5 71.00	2 68.20	3 474.70		86
87	COMBINATIONS [21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1957 1965	1942 1955	1942 1951	1950 1954	1960 1968		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00	13.00 15.00	15.00	15.00 18.00	15.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	355.50	216.60	219.60	163.00	626.50		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)							91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)							92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)	1,421.40	717.00	530.80	706.10	2,679.50		94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	18.60	26.00	66.00	41.00	78.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	13.10	8.60	6.00	6.10	66.00		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.60	18.50	19.30	16.50	28.70		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	.63	1.00	.40	.47	3.10		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	SOUTHWEST PUBLIC SERVICE CO.		SOUTHWEST PUBLIC SERVICE CO.		SOUTHWEST PUBLIC SERVICE CO.		SOUTHWESTERN ELECTRIC POWER CO.		SOUTHWESTERN ELECTRIC POWER CO.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	PLANT X		RIVERVIEW		ROSWELL		ARSENAL HILL		KNOX LEE		4
5	UTILITY-PLANT CODE	5	453000-1300		453000-1400		453000-1500		454000-0100		454000-0200		5
6	STATE	6	TEXAS		TEXAS		NEW MEXICO		LOUISIANA		TEXAS		6
7	COUNTY	7	LAMB		HUTCHINSON		CHAVES		CADDO		GREGG		7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	211	11	211	12	155	13	022	11	022	12	8
9	PLANT CAPACITY (MW)	9		434.40		69.50		24.20		170.00		186.00	9
10	ANNUAL GENERATION (MWH)[3]	10		1,898,900		147,100		88,300		452,500		1,131,500	10
11	PLANT HEAT RATE (BTU/KWH)[3]	11		10,242		14,120		14,507		11,190		12,176	11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12											12
13	AVERAGE HEAT CONTENT (BTU/LB)	13											13
14	AVERAGE SULFUR CONTENT (%)	14											14
15	AVERAGE ASH CONTENT (%)	15											15
16	AVERAGE MOISTURE CONTENT (%)	16											16
17	OIL: CONSUMPTION (1,000 BARRELS)	17											17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18											18
19	AVERAGE SULFUR CONTENT (%)	19											19
20	GAS: CONSUMPTION (1,000 MCF)	20		19,449.00		1,746.00		1,280.00		4,741.00		13,430.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,000		1,189		1,000		1,068		1,025	21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22		4		9		3		9		4	22
23	- NO. OF WET BOTTOM	23											23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25											25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26											26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27											27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29		10.00		10.00		10.00	7.00	15.00	7.00	8.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30											30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32											32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33											33
34	TESTED, LOW - HIGH	34											34
35	EST., LOW - HIGH	35											35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39											39
40	SULFUR DIOXIDE (1,000 TONS)	40				.34		.25		.92		2.62	40
41	NITROGEN OXIDES (1,000 TONS)	41		3.79									41
42	STACKS: - TOTAL NO.	42		6		5		3		4		4	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43	85.00	153.00		80.00	49.00	59.50	155.00	273.00	100.00	130.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45											45
46	SOLD (1,000 TONS)[11]	46											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($I,000)	50											50
51	ELECTROSTATIC PRECIPITATORS ($I,000)	51											51
52	COMBINATION PRECIPITATORS ($I,000)[4]	52											52
53	DESULFURIZATION SYSTEMS ($I,000)	53											53
54	STACKS ($I,000)	54		61.18		17.30		9.60		70.70		44.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($I,000)	55											55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($I,000)[13]	59											59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60											60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	W		M		W		M		L CHEROKEE		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		5.93		.74		.52				403.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63		2.24		.15		.26				403.00	63
64	AVG. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64		3.69		.59		.26					64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	65							AUG	DEC	AUG	DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66							84.00	60.00	93.00	65.00	66
67	AT OUTFALL, SUMMER - WINTER	67							97.00	68.00	102.00	72.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68											68
69	- WINTER	69											69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		.94		.09		.48					71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		183.51				.06		12.90			72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73				5.82							73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	14.55		1.38		.43		.38		2.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	76	YES	YES	YES	YES	YES	YES		YES			76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	77	ST		ST		PS		PS		ST		77
78	RECEIVING WATER BODY	78											78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	79											79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80											80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81											81
82	- ASH SETTLING	82											82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	83											83
84	ONCE THROUGH COOLING (SALINE)	84											84
85	COOLING POND(S)	85							5	170.00	4	186.00	85
86	COOLING TOWER(S)	86	4	434.00	4	69.50	2	24.20					86
87	COMBINATION[21]	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1952	1964	1939	1947	1941	1950		1960	1950	1956	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	89		15.00		15.00	11.00	14.00	10.00	18.00	8.40	15.80	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		648.80		136.50		70.90		468.00		435.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91											91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($I,000)	92											92
93	COOLING PONDS ($1,000)	93								187.80			93
94	COOLING TOWERS ($I,000)	94		2,784.10		307.40		193.60					94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($I,000)	95		50.90		7.70		20.00		2.10		2.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		39.60		3.90		2.30		.10		.50	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($I,000)	97		28.70		13.00		10.30		3.20		3.00	97
98	COST OF CHEMICAL ADDITIVES ($I,000)	98		19.90		.30		2.20		1.00			98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	SOUTHWESTERN ELECTRIC POWER CO.		SOUTHWESTERN ELECTRIC POWER CO.		SOUTHWESTERN ELECTRIC POWER CO.		SPRINGFIELD WATER LIGHT & POWER DEPT.		SPRINGFIELD WATER LIGHT & POWER DEPT.		1
2												2
3												3
4	NAME OF PLANT	LIEBERMAN		LONE STAR		WILKES		OALLMAN		LAKESIDE		4
5	UTILITY-PLANT CODE	454000-0300		454000-0400		454000-0500		457000-0100		457000-0200		5
6	STATE	LOUISIANA		TEXAS		TEXAS		ILLINOIS		ILLINOIS		6
7	COUNTY	CADDO		MORRIS		MARION		SANGAMON		SANGAMON		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	022	11	022	11	022	11	075	07	075	07	8
9	PLANT CAPACITY (MW)		277.20		50.00		530.50		90.25		155.00	9
10	ANNUAL GENERATION (MWH) [3]		1,354,400		203,000		3,117,300		505,700		406,200	10
11	PLANT HEAT RATE (BTU/KWH) [3]		10,254		13,205		10,004		11,202		13,532	11
	AIR QUALITY CONTROL DATA											
	FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)								266.60		270.20	12
13	AVERAGE HEAT CONTENT (BTU/LB)								10,479		10,492	13
14	AVERAGE SULFUR CONTENT (%)								3.73		3.73	14
15	AVERAGE ASH CONTENT (%)								10.98		10.91	15
16	AVERAGE MOISTURE CONTENT (%)								14.45		14.43	16
17	OIL: CONSUMPTION (1,000 BARRELS)		20.50									17
18	AVERAGE HEAT CONTENT (BTU/GAL)		145,269									18
19	AVERAGE SULFUR CONTENT (%)											19
20	GAS: CONSUMPTION (1,000 MCF)		13,034.00		2,602.00		30,296.00					20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,056		1,030		1,030					21
	PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.		4		1		2		1		8	22
23	- NO. OF WET BOTTOM								1		2	23
24	- NO. WITH FLY ASH REINJECTION											24
25	- NO. WITH MECHANICAL PRECIPITATORS								1		6	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS											26
27	- NO. WITH COMBINATION PRECIPITATORS [4]											27
28	- NO. WITH DESULFURIZATION SYSTEMS											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	15.00	17.00	7.00		6.00	7.00	15.00		15.00	20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							82.00				30
31	TESTED, LOW - HIGH							84.30				31
32	ESTIMATED, LOW - HIGH							85.00		70.00	80.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH											33
34	TESTED, LOW - HIGH											34
35	EST., LOW - HIGH											35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH											36
37	TESTED, LOW - HIGH											37
38	ESTIMATED, LOW - HIGH											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT											
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)								.44		3.64	39
40	SULFUR DIOXIDE (1,000 TONS)								19.49		19.78	40
41	NITROGEN OXIDES (1,000 TONS)		2.59		.51		5.91		7.33		6.01	41
42	STACKS: - TOTAL NO.		5		1		3		1		8	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	125.00	140.00	140.00		161.00	162.00	300.00		125.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]											44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]							29.30		25.40		45
46	SOLD (1,000 TONS) [11]											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)								125.00		74.80	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)											51
52	COMBINATION PRECIPITATORS ($1,000) [4]											52
53	DESULFURIZATION SYSTEMS ($1,000)											53
54	STACKS ($1,000)		41.00		13.94		167.00		230.00		212.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)								25.20		68.30	55
56	REVENUES FROM SALE OF ASH ($1,000)											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]								25.20		68.30	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)											60
	WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L	CADDO	O	ELLISON CR RES	O	JOHNSON CR RES	L	SPRINGFIELD	L	SPRINGFIELD	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)		260.00		110.00		490.00		112.30		144.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)		260.00		110.00		490.00		112.30		144.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]								.97		1.24	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG	DEC	AUG	DEC	AUG	DEC	JUL	JAN	JUL	JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	96.00	64.00	91.00	60.00	102.00	78.00	89.00	43.00	94.00	48.00	66
67	AT OUTFALL, SUMMER - WINTER	115.00	73.00	101.00	71.00	125.00	101.00	104.00	68.00	102.00	60.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER											68
69	- WINTER											69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP								.50		.25	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		20.13				15.00				20.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP											73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.40		1.50		8.00		.15		.20		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]		YES				YES		YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST		OT		ST		PS		PS		77
78	RECEIVING WATER BODY											78
79	POND DISCHARGE: [18] PH, BOILER BLOWDOWN - ASH SETTLING											79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING								9.00		9.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN								4.00		4.00	81
82	- ASH SETTLING											82
	COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)							1	90.25	7	155.00	83
84	ONCE THROUGH COOLING (SALINE)											84
85	COOLING POND(S)	4	277.20	1	50.00	2	530.50					85
86	COOLING TOWER(S)											86
87	COMBINATIONS [21]											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1947	1959	1953		1964		1968		1935	1965	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	12.00	18.00	14.00		21.00		15.00		13.65	14.11	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		416.00	122.00		477.00		137.00			339.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)							156.00			481.00	91
	CAPITAL COSTS OF COOLING FACILITIES											
92	ONCE THROUGH COOLING SYSTEMS ($1,000)								258.00		510.00	92
93	COOLING PONDS ($1,000)		723.70				1,112.00					93
94	COOLING TOWERS ($1,000)											94
	ANNUAL COOLING WATER EXPENSES											
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		3.00		3.00		3.00		24.30		40.10	95
96	COST OF CHEMICAL ADDITIVES ($1,000)		.60		.40		1.80		.10		.20	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		5.00		4.00		4.00		6.00		21.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)		2.80				1.00		.80		4.30	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	ST. JOSEPH LIGHT & POWER CO.	ST. JOSEPH LIGHT & POWER CO.	TACOMA DEPT. OF PUBLIC UTILS.	TALLAHASSEE, CITY OF	TAMPA ELECTRIC CO.	1
2							2
3				STEAM #2	PUROOM	GANNON	3
4	NAME OF PLANT	EDMOND	LAKERDAD	473000-0800	473500-0100	474000-0100	4
5	UTILITY-PLANT CODE	460000-0100	460000-0200	WASHINGTON	FLORIDA	FLORIDA	5
6	STATE	MISSOURI	MISSOURI	PIERCE	WAKULLA	HILLSBOROUGH	6
7	COUNTY	BUCHANAN	BUCHANAN	229 17	049 03	052 03	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	094 10	094 10	59.00	118.00	1,315.00	8
9	PLANT CAPACITY (MW)	42.50	150.50		529,100	5,350,000	9
10	ANNUAL GENERATION (MWH)[3]	55,600	882,600		15,796	10,356	10
11	PLANT HEAT RATE (BTU/KWH)[3]	22,492	13,663				11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	3.86	36.64						2,466.30		12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,714	11,609						11,298		13
14	AVERAGE SULFUR CONTENT (%)	2.68	3.32						3.64		14
15	AVERAGE ASH CONTENT (%)	7.98	9.96						12.47		15
16	AVERAGE MOISTURE CONTENT (%)	17.51	11.43						9.78		16
17	OIL: CONSUMPTION (1,000 BARRELS)	5.11	9.34		213.40						17
18	AVERAGE HEAT CONTENT (BTU/GAL)	149,869	149,956		154,983						18
19	AVERAGE SULFUR CONTENT (%)	2.05	1.56		1.44						19
20	GAS: CONSUMPTION (1,000 MCF)	1,179.46	11,790.61		6,636.90						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	963	963		1,041						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	5	6	2	7		6				22
23	- NO. OF WET BOTTOM		1				6				23
24	- NO. WITH FLY ASH REINJECTION						6				24
25	- NO. WITH MECHANICAL PRECIPITATORS	2	3	2							25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						6				26
27	- NO. WITH COMBINATION PRECIPITATORS[4]										27
28	- NO. WITH DESULFURIZATION SYSTEMS										28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00 33.00	10.00 25.00	13.00	10.00 15.00		13.00 16.00				29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	93.00	70.00 85.70								30
31	TESTED, LOW - HIGH										31
32	ESTIMATED, LOW - HIGH	93.00	70.00 85.70				90.00 98.50				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						91.30 99.30				33
34	TESTED, LOW - HIGH						96.00 99.50				34
35	EST., LOW - HIGH										35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH										36
37	TESTED, LOW - HIGH										37
38	ESTIMATED, LOW - HIGH										38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01	.22		.04		1.85				39
40	SULFUR DIOXIDE (1,000 TONS)	.24	2.43		1.03		175.96				40
41	NITROGEN OXIDES (1,000 TONS)	.27	3.11		1.76		52.10				41
42	STACKS: - TOTAL NO.	3	6	2	6		7				42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	75.00 189.00	92.00 225.00	138.00	84.00 180.00		200.00 306.00				43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]										44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	.29	3.38				914.00				45
46	SOLD (1,000 TONS)[11]						170.90				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)										47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]										48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)										49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	23.20	176.10				1,434.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)										51
52	COMBINATION PRECIPITATORS ($1,000)[4]										52
53	DESULFURIZATION SYSTEMS ($1,000)										53
54	STACKS ($1,000)	145.89	270.60	30.00	90.00		288.00				54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	1.71	2.36				274.00				55
56	REVENUES FROM SALE OF ASH ($1,000)						198.70				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)										57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)										58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	1.71	2.36				278.00				59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						198.80				60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSOURI	RW MISSOURI	O HYLEBOS WTRWY.	R ST. MARKS	d TAMPA					61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	10.30	89.60		247.80	1,961.00					62
63	AVERAGE RATE OF DISCHARGE (CFS)	10.30	88.30		247.80	1,961.00					63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.09	.77 1.30		2.13	16.86					64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL JAN	AUG JAN		SEP JAN	AUG DEC					65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 35.00	84.00 35.00		78.00 63.00	94.00 74.00					66
67	AT OUTFALL, SUMMER - WINTER	100.00 60.00	102.00 81.00		87.00 69.00	105.00 81.00					67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	43,798.00	47,258.00		377.70						68
69	- WINTER	17,896.00	17,896.00		325.00						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]										70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	6.35	17.20 5.90		.74	2.60					71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.75	.20		.50	762.50					72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	53.65	293.05								73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP										74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.45	3.66		9.00 .10	227.00					75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES		YES YES	YES YES					76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	OT	SW	ST	OT					77
78	RECEIVING WATER BODY			O HYLEBOS WTRWY.		8 TAMPA					78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING										79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING										80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN										81
82	- ASH SETTLING										82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	3 42.50	1 90.00		7 118.00						83
84	ONCE THROUGH COOLING (SALINE)			2 59.00		6 1,270.38					84
85	COOLING POND(S)										85
86	COOLING TOWER(S)		3 60.50								86
87	COMBINATIONS[21]										87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1920 1949	1951 1967	1931	1952 1966	1957 1967					88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.00 13.00	12.20 18.30		13.00 15.00	12.00 16.00					89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	129.23	269.30	131.00	286.40	1,961.00					90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	129.30	114.60	131.00	367.00	1,961.00					91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	175.00	580.10	103.00	750.00	4,164.00					92
93	COOLING PONDS ($1,000)										93
94	COOLING TOWERS ($1,000)		218.70								94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.60	14.66		2.08	72.50					95
96	COST OF CHEMICAL ADDITIVES ($1,000)	.13	11.65		1.20	23.00					96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.57	78.89		6.24	123.00					97
98	COST OF CHEMICAL ADDITIVES ($1,000)	7.28	22.56		9.30	52.00					98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	TAMPA ELECTRIC CO.	TAMPA ELECTRIC CO.	TAUNTON MUNICIPAL LIGHTING PLT.	TAUNTON MUNICIPAL LIGHTING PLT.	TENNESSEE VALLEY AUTHORITY	1
2							2
3							3
4	NAME OF PLANT	HOOKERS POINT	BIG BEND	CLEARY	TAUNTON	ALLEN	4
5	UTILITY-PLANT CODE	474030-C20C	474000-C300	475000-0100	475000-0200	477000-0100	5
6	STATE	FLORIDA	FLORIDA	MASSACHUSETTS	MASSACHUSETTS	TENNESSEE	6
7	COUNTY	HILLSBOROUGH	HILLSBORUUGH	BRISTOL	BRISTOL	SHELBY	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	052 03	052 03	120 01	120 01	018 08	8
9	PLANT CAPACITY (MW)	225.00	450.00	28.30	49.00	990.00	9
10	ANNUAL GENERATION (MWHI 3/	960,900	441,000	136,000	135,600	5,566,500	10
11	PLANT HEAT RATE (BTU/KWH) 3/	12,473	10,257	12,474	14,602	9,560	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)			205.00				1,271.30	12
13	AVERAGE HEAT CONTENT (BTU/LB)			11,368				11,435	13
14	AVERAGE SULFUR CONTENT (%)			3.49				3.16	14
15	AVERAGE ASH CONTENT (%)			12.49				12.17	15
16	AVERAGE MOISTURE CONTENT (%)			9.43				9.68	16
17	OIL: CONSUMPTION (1,000 BARRELS)	1,903.20			269.00	418.00		1.41	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	149,931			151,310	151,147		138,051	18
19	AVERAGE SULFUR CONTENT (%)	2.01			1.73	1.72		.21	19
20	GAS: CONSUMPTION (1,000 MCF)							17,278.90	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)							1,057	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6	1	2	7	3			22
23	- NO. OF WET BOTTOM		1			3			23
24	- NO. WITH FLY ASH REINJECTION		1						24
25	- NO. WITH MECHANICAL PRECIPITATORS				1				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		1			3			26
27	- NO. WITH COMBINATION PRECIPITATORS 4/								27
28	- NO. WITH DESULFURIZATION SYSTEMS								28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BUILER 5/	13.00 20.00	15.00	10.00 15.00	15.00	13.00			29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH								30
31	TESTED, LOW - HIGH								31
32	ESTIMATED, LOW - HIGH				80.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		98.50			90.00			33
34	TESTED, LOW - HIGH					70.00			34
35	EST., LOW - HIGH		99.00			70.00	61.00	70.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH								36
37	TESTED, LOW - HIGH								37
38	ESTIMATED, LOW - HIGH								38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.32	.47	.05	.05	5.10			39
40	SULFUR DIOXIDE (1,000 TONS)	12.83	14.02	1.56	2.41	78.74			40
41	NITROGEN OXIDES (1,000 TONS)	4.20	3.08	.59	.92	38.33			41
42	STACKS: - TOTAL NO.	4	1	2	4	3			42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	150.00 173.00	490.00	82.00 129.83	94.00 250.00	400.00			43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	.10			.07				44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	8.00	40.50		.62	140.80			45
46	SOLD (1,000 TONS) 11/					59.60			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)								47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/								48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)								49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)								50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		540.00						51
52	COMBINATION PRECIPITATORS ($1,000) 4/								52
53	DESULFURIZATION SYSTEMS ($1,000)								53
54	STACKS ($1,000)	184.00	612.00	22.00	157.00				54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	1.90	16.50	1.50	7.00	166.00			55
56	REVENUES FROM SALE OF ASH ($1,000)								56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)								57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)								58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	20.55	17.00	1.50	7.00	166.00			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)								60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B TAMPA	B TAMPA	R TAUNTON	R TAUNTON	R MISSISSIPPI			61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	390.00	535.00	38.00	93.00	664.00			62
63	AVERAGE RATE OF DISCHARGE (CFS)	390.00	535.00	38.00	93.00	663.00			63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	3.35	4.60	.33	.80	5.71 1.00			64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC	AUG DEC	JUL DEC	JUL DEC	JUL JAN			65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00 62.00	87.00 74.00	87.00 33.00	88.00 38.00	81.00 41.00			66
67	AT OUTFALL, SUMMER - WINTER	107.00 86.00	92.00 85.00	99.00 45.00	98.00 48.00	101.00 61.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			58.00	93.00	282,700.00			68
69	- WINTER			58.00	93.00	456,600.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/		H						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.58	.13	.19	.98				71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	2.54	101.51	.14	3.12	24.00			72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP								73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP								74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74.00	4.47	18.00	21.00	27.00			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES	YES	YES	YES			76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	OT	ST	PS	PS			77
78	RECEIVING WATER BODY			O LEACHING FIELD					78
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING					7.50			79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					28.00			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN								81
82	- ASH SETTLING					39,000.00			82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)					3 990.00			83
84	ONCE THROUGH COOLING (SALINE)	5 232.60	1 450.00	1 28.00	5 44.00				84
85	COOLING POND(S)								85
86	COOLING TOWER(S)								86
87	COMBINATIONS 21/								87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948 1955	1970	1966	1933 1958	1958 1959			88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	14.40 18.10	16.00	20.00	14.00 20.00	20.00			89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	390.40	535.00	55.80	94.60	768.60			90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	327.40	535.00	55.80	94.60	848.88			91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,561.00	1,200.00	250.00	515.00		92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	31.50	2.50	14.00	15.00	22.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	8.90	.30	2.50	3.00	3.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	27.90	2.50	32.00	25.00	6.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	7.60	7.00	.15	.80	10.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	
NAME OF PLANT	BULL RUN	COLBERT A	COLBERT B	GALLATIN	SEVIER	
UTILITY-PLANT CODE	477000-0500	477000-0900	477000-0905	477000-1400	477000-1800	
STATE	TENNESSEE	ALABAMA	ALABAMA	TENNESSEE	TENNESSEE	
COUNTY	ANDERSON	COLBERT	COLBERT	SUMNER	HAWKINS	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	207 06	007 06	007 06	208 05	207 06	
PLANT CAPACITY (MW)	950.00	846.50	550.00	1,255.20	823.25	
ANNUAL GENERATION (MWH) [3]	5,466,900	4,733,600	2,899,200	6,558,900	3,604,100	
PLANT HEAT RATE (BTU/KWH) [3]	8,850	9,730	9,590	9,300	9,570	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,931.70	1,930.80	1,077.40	2,981.00	1,299.40	
AVERAGE HEAT CONTENT (BTU/LB)	11,534	11,269	11,378	10,470	11,082	
AVERAGE SULFUR CONTENT (%)	2.07	4.01	4.09	3.96	1.41	
AVERAGE ASH CONTENT (%)	14.72	14.01	14.10	17.73	17.59	
AVERAGE MOISTURE CONTENT (%)	6.20	8.21	7.47	9.12	6.59	
OIL: CONSUMPTION (1,000 BARRELS)	66.36	6.39	5.07	9.96	11.51	
AVERAGE HEAT CONTENT (BTU/GAL)	136,852	138,079	138,079	137,490	137,517	
AVERAGE SULFUR CONTENT (%)	.20	.10	.10	.20	.20	
GAS: CONSUMPTION (1,000 MCF)						
AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	4	1	4	4	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS		4		2	4	
- NO. WITH ELECTROSTATIC PRECIPITATORS	1		1			
- NO. WITH COMBINATION PRECIPITATORS [4]				4		
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	20.00	20.00	20.00	20.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00		72.00 84.00	85.00	
TESTED, LOW - HIGH		67.00				
ESTIMATED, LOW - HIGH		67.00			67.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	99.00		90.00	98.60 99.20		
TESTED, LOW - HIGH	98.70		80.00	92.00 95.00		
EST., LOW - HIGH	98.60		80.00	94.20 98.70		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	3.38	58.02	19.75	14.31	64.11	
SULFUR DIOXIDE (1,000 TONS)	78.42	151.75	86.37	231.37	35.91	
NITROGEN OXIDES (1,000 TONS)	17.53	14.48	8.08	30.87	11.69	
STACKS: - TOTAL NO.	1	4	1	2	2	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	800.00	300.00	500.00	500.00	350.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]			.05			
TOTAL ASH: COLLECTED (1,000 TONS) [10]	282.90	203.80	123.30	516.30	171.80	
SOLD (1,000 TONS) [11]			12.70	7.10		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		919.60		229.00	282.40	
ELECTROSTATIC PRECIPITATORS ($1,000)	1,701.00		744.00			
COMBINATION PRECIPITATORS ($1,000) [4]				5,524.00		
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	1,224.00	524.00	427.00	715.00	372.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	155.00	227.00	219.00	346.00	205.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	155.00	227.00	219.00	346.00	205.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CLINCH	R TENNESSEE	R TENNESSEE	R CUMBERLAND	R HOLSTON	
AVERAGE RATE OF WITHDRAWAL (CFS)	690.00	1,159.00	467.00	1,210.00	709.00	
AVERAGE RATE OF DISCHARGE (CFS)	489.00	1,153.00	464.00	1,193.00	705.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	5.93 1.00	9.97 6.00	4.02 3.00	10.41 17.00	6.10 4.00	
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL JAN	MAY JAN	MAY JAN	AUG JAN	AUG JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	60.00 48.00	83.00 45.00	83.00 45.00	70.00 46.00	79.00 43.00	
AT OUTFALL, SUMMER - WINTER	78.00 66.00	96.00 58.00	97.00 59.00	84.00 60.00	96.00 60.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	5,200.00	37,800.00	37,800.00	14,200.00	3,300.00	
- WINTER	5,600.00	89,500.00	89,500.00	28,700.00	5,200.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.29	.17	.60	.65	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	68.75	40.25	24.18		.08	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP		8.45	5.08	19.75	5.60	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		.56	.34	.49	80.00 .85	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	ST	ST	OT	ST	
RECEIVING WATER BODY	R CLINCH	R TENNESSEE	R TENNESSEE	R CUMBERLAND	R HOLSTON	
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	6.90	11.90		9.50	8.40	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	110.00	107.00		24.00	50.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	49,000.00	342,000.00		635,000.00	195,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	1 950.00	4 846.50	1 550.00	4 1,255.20	4 823.25	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1966	1954 1955	1962	1956 1959	1955 1957	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	17.90	13.20	14.40	11.30 15.60	17.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	885.60	1,270.00	654.00	1,320.00	1,011.60	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	950.76	1,354.64	695.14	1,417.00	1,105.08	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	2,042.00	2,688.00	1,694.00	2,924.00	3,528.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.00	23.00	15.00	12.00	63.00
COST OF CHEMICAL ADDITIVES ($1,000)					10.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.00	38.00	34.00	51.00	62.00
COST OF CHEMICAL ADDITIVES ($1,000)	37.00	13.00	8.00	11.00	3.00

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	1
2							2
3							3
4	NAME OF PLANT	JOHNSONVILLE	KINGSTON	PARADISE	SHAWNEE	WATTS BAR	4
5	UTILITY-PLANT CODE	477000-1900	477000-2100	477000-3000	477000-3200	477000-3600	5
6	STATE	TENNESSEE	TENNESSEE	KENTUCKY	KENTUCKY	TENNESSEE	6
7	COUNTY	HUMPHREYS	ROANE	MUHLENBERG	MCCRACKEN	RHEA	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	208 06	207 06	072 05	072 05	207 06	8
9	PLANT CAPACITY (MW)	1,485.20	1,700.00	2,558.20	1,750.00	240.00	9
10	ANNUAL GENERATION (MWH) [3]	7,932,400	8,192,000	11,482,200	10,488,300	185,500	10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,153	9,740	9,460	9,780	12,359	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12	3,371.50		3,650.30		5,842.10		4,633.50		147.80		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,148		10,802		10,205		10,920		12,460		13
14	AVERAGE SULFUR CONTENT (%)	14	3.78		1.95		4.16		2.61				14
15	AVERAGE ASH CONTENT (%)	15	13.59		18.84		18.90		13.42				15
16	AVERAGE MOISTURE CONTENT (%)	16	9.07		6.68		9.26		10.48				16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	8.46		26.70		87.32		27.64		.84		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	136,078		137,998		138,307		136,900		136,000		18
19	AVERAGE SULFUR CONTENT (%)	19	.10		.40		.21		.19		.10		19
20	GAS: CONSUMPTION (1,000 MCF)	20											20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21											21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	10		9		3		10		4		22
23	- NO. OF WET BOTTOM	23					3						23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	10						4				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					3				4		26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27			9				10				27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	18.00	20.00	16.00	20.00	16.00	20.00	20.00		20.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	85.00	86.00					85.00				30
31	TESTED, LOW - HIGH	31	70.00	81.00									31
32	ESTIMATED, LOW - HIGH	32	70.00	81.00									32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33				99.30		98.00		98.50		95.00	33
34	TESTED, LOW - HIGH	34			96.25	97.20		98.00		94.00		95.00	34
35	EST., LOW - HIGH	35			96.25	97.20	97.80	97.90	90.00	95.00		95.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39	89.19		18.37		2.32		22.25				39
40	SULFUR DIOXIDE (1,000 TONS)	40	249.79		139.51		476.34		237.03				40
41	NITROGEN OXIDES (1,000 TONS)	41	28.02		32.85		160.66		34.75		1.11		41
42	STACKS: - TOTAL NO.	42	8		9		3		10		2		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	270.00	400.00	250.00	300.00	600.00	800.00	250.00		147.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44							3.10				44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45	372.70		670.60		1,097.40		589.90		17.70		45
46	SOLD (1,000 TONS) [11]	46			25.80								46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50	731.00						377.20				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51					6,698.00				1,666.00		51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52			2,409.00				8,050.60				52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	360.00		1,098.00		962.00		1,830.00		30.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	242.00		586.00		1,695.00		412.00		19.00		55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59	242.00		586.00		1,695.00		412.00		19.00		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60											60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R TENNESSEE		R CLINCH		R GREEN		R OHIO		R TENNESSEE		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	2,095.00		1,830.00		871.00		2,237.00		111.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	2,082.00		1,811.00		842.00		2,210.00		110.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	18.02	13.00	15.74	19.00	29.00		19.24	27.00	.95	1.00	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65			JUL	DEC	AUG	MAR	JUN	MAR	AUG	JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	78.00	44.00	73.00	52.00	96.00	50.00	78.00	47.00	82.00	47.00	66
67	AT OUTFALL, SUMMER - WINTER	67	91.00	57.00	89.00	68.00		76.00	90.00	59.00	89.00	54.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		51,000.00		5,600.00		3,167.00		171,500.00		25,600.00	68
69	- WINTER	69		112,000.00		5,800.00		10,100.00		361,900.00		40,000.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C [16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		5.15		1.83				1.63		.30	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		1.36		1.73		143.75					72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73											73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		24.93		21.00				13.75			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		.39	27.85	.20	27.00		65.75				75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76		YES		YES		YES		YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	ST		ST		OT		ST		ST		77
78	RECEIVING WATER BODY	78	R TENNESSEE		R EMORY				R OHIO		R TENNESSEE		78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	79		10.80		4.10		6.80		11.40		9.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		30.00		19.00		270.00		75.00		24.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81											81
82	- ASH SETTLING	82		487,000.00		732,000.00		132,000.00		930,000.00		1,600.00	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83	10	1,485.20	9	1,700.00			10	1,750.00	4	240.00	83
84	ONCE THROUGH COOLING (SALINE)	84											84
85	COOLING PONDS(S)	85											85
86	COOLING TOWER(S)	86					1	1,150.20					86
87	COMBINATIONS [21]	87					2	1,408.00					87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1951	1959	1954	1955	1963	1969	1953	1956	1942	1945	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	12.40	13.30	15.20	15.50	26.00	28.00		12.30		6.90	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		2,293.00		2,154.50		1,634.80		2,397.00		625.60	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		2,486.48		2,323.83		1,144.86		2,495.40			91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92		5,082.00		5,157.00		2,890.00		9,730.00		652.00	92
93	COOLING PONDS ($1,000)	93											93
94	COOLING TOWERS ($1,000)	94											94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95		68.00		32.00		95.00		73.00		8.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96				2.00		3.00		8.00			96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		109.00		81.00		13.00		104.00		4.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		17.00		13.00		35.00		11.00			98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	TENNESSEE VALLEY AUTHORITY		TENNESSEE VALLEY AUTHORITY		TEXAS ELECTRIC SERVICE CO.		TEXAS ELECTRIC SERVICE CO.		TEXAS ELECTRIC SERVICE CO.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	WIDOWS CREEK A		WIDOWS CREEK 8		EAGLE MOUNTAIN		GRAHAM		HANDLEY		4
5	UTILITY-PLANT CODE	5	477000-3800		477000-3805		478000-0100		478000-0200		478000-0300		5
6	STATE	6	ALABAMA		ALABAMA		TEXAS		TEXAS		TEXAS		6
7	COUNTY	7	JACKSON		JACKSON		TARRANT		YOUNG		TARRANT		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	007 06		007 06		215 12		210 12		215 12		8
9	PLANT CAPACITY (MW)	9	853.00		1,125.01		310.00		635.00		523.35		9
10	ANNUAL GENERATION (MWH) [3]	10	3,704,200		5,330,900		1,103,100		2,927,800		2,540,800		10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	10,490		9,540		10,990		9,900		9,980		11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12	1,797.60		2,574.40								12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,597		10,822								13
14	AVERAGE SULFUR CONTENT (%)	14	2.84		3.35								14
15	AVERAGE ASH CONTENT (%)	15	20.48		18.38								15
16	AVERAGE MOISTURE CONTENT (%)	16	6.31		6.87								16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	23.24		21.34				4.00				17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	138,438		138,284				142,857				18
19	AVERAGE SULFUR CONTENT (%)	19	.20		.22								19
20	GAS: CONSUMPTION (1,000 MCF)	20					11,919.00		28,476.50		24,756.90		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21					1,017		1,017		1,024		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	6		2		2		2		4		22
23	- NO. OF WET BOTTOM	23											23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	6										25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26			2								26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27											27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	20.00		20.00		7.00	10.00	6.50	8.00	8.00	14.50	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	85.00										30
31	TESTED, LOW - HIGH	31	70.00										31
32	ESTIMATED, LOW - HIGH	32	70.00										32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33			90.00								33
34	TESTED, LOW - HIGH	34		40.00	75.00								34
35	EST., LOW - HIGH	35			35.00								35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39	71.79		176.76								39
40	SULFUR DIOXIDE (1,000 TONS)	40	100.06		169.04								40
41	NITROGEN OXIDES (1,000 TONS)	41	13.48		23.17		2.32		5.56		4.83		41
42	STACKS: - TOTAL NO.	42	6		2		1		3		4		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	170.00	270.00	500.00		225.00		163.00	177.00	150.00	184.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45	285.40		325.20								45
46	SOLD (1,000 TONS) [11]	46											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50	553.20										50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51			1,737.00								51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52											52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	192.00		684.00		66.00				158.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	200.00		341.00								55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59	200.00		341.00								59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60											60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R TENNESSEE		R TENNESSEE		L EAGLE MOUNTAIN		L EDDLEMAN		L ARLINGTON		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,141.00		914.00		244.60		546.40		514.90		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,131.00		897.00		242.90		542.60		511.60		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	9.81	10.00	7.86	17.00	1.70		3.80		3.30		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	JUL	JAN	JUL	JAN	AUG	DEC	AUG	DEC	AUG	DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	83.00	47.00	83.00	47.00	87.00	58.00	85.00	60.00	94.40	64.30	66
67	AT OUTFALL, SUMMER - WINTER	67	95.00	59.00	95.00	59.00	104.00	73.00	103.00	86.00	108.50	92.90	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		31,000.00		31,000.00							68
69	- WINTER	69		62,000.00		62,000.00							69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		1.10		.75		1.99		.27		.90	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		19.75		13.00				64.57		1.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						23.99		26.42			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		10.63		7.13							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		.73		.50	16.00		53.30		46.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76		YES		YES		YES		YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77					OT		PS		PS		77
78	RECEIVING WATER BODY [19]	78	O ASH POND		O ASH POND		L EAGLE MOUNTAIN						78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79		10.40									79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		24.00									80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81											81
82	- ASH SETTLING	82		976,000.00									82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83	6	853.00	2	1,125.01							83
84	ONCE THROUGH COOLING (SALINE)	84											84
85	COOLING PONDS	85					2	310.00	2	634.70	3	523.35	85
86	COOLING TOWERS	86											86
87	COMBINATIONS [21]	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1952	1954	1960	1964	1954	1956	1960	1969	1957	1962	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	11.60	12.20	18.30	20.90	21.10	21.30	14.00	20.00	16.00	17.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		1,371.00		1,062.80		323.00		753.00		755.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		1,425.94		1,149.70							91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	2,706.00		2,620.00								92
93	COOLING PONDS ($1,000)	93											93
94	COOLING TOWERS ($1,000)	94											94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	21.00		21.00								95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96					1.60		5.30		4.50		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	38.00		54.00				10.40				97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	12.00		8.00		1.80		7.66		3.30		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	TEXAS POWER & LIGHT CO.	1
2							2
3							3
4	NAME OF PLANT	MORGAN CREEK	NORTH MAIN	PERMIAN BASIN	WICHITA FALLS	COLLIN	4
5	UTILITY-PLANT CODE	478000-0400	478000-0500	478000-0600	478000-0700	478500-0300	5
6	STATE	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS	6
7	COUNTY	MITCHELL	TARRANT	WARD	WICHITA	COLLIN	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	210 I2	215 I2	218 I3	210 I1	215 I2	8
9	PLANT CAPACITY (MW)	845.76	116.25	164.95	25.00	156.25	9
10	ANNUAL GENERATION (MWH) 3/	4,903,000	264,800	1,186,900	10,100	770,432	10
11	PLANT HEAT RATE (BTU/KWH) 3/	10,230	13,404	11,590	16,855	10,474	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)						12
13	AVERAGE HEAT CONTENT (BTU/LB)						13
14	AVERAGE SULFUR CONTENT (%)						14
15	AVERAGE ASH CONTENT (%)						15
16	AVERAGE MOISTURE CONTENT (%)						16
17	OIL: CONSUMPTION (1,000 BARRELS)	1.00				5.23	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	142,857				147,831	18
19	AVERAGE SULFUR CONTENT (%)					2.00	19
20	GAS: CONSUMPTION (1,000 MCF)	48,204.50	3,490.40	12,701.50	164.30	8,220.73	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,041	1,017	1,083	1,038	978	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	6	8	5	2	1	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						26
27	- NO. WITH COMBINATION PRECIPITATORS 4/						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	8.00 20.00	10.00	8.00 12.00	12.00	8.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH						33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)						39
40	SULFUR DIOXIDE (1,000 TONS)					.04	40
41	NITROGEN OXIDES (1,000 TONS)	9.40	.68	2.48	.03	1.61	41
42	STACKS: - TOTAL NO.	6	4	4	1	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	150.00 182.00	256.00 321.00	150.00	150.00	196.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/						45
46	SOLD (1,000 TONS) 11/						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000) 4/						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	88.06	109.00	143.80	17.00	36.16	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/						59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L COLORADO CITY	R TRINITY	W	L WICHITA	W	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	890.30	6.00	4.63	1.17	2.86	62
63	AVERAGE RATE OF DISCHARGE (CFS)	883.50	4.90	.55	1.11	.16	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	6.80	1.10	4.08	.06	2.73	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG OEC	AUG OEC	AUG OEC	AUG OEC	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	93.00 65.00	99.00	92.00 81.00	88.00		66
67	AT OUTFALL, SUMMER - WINTER	112.00 77.00	107.00 74.00	111.00 95.00	92.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						68
69	- WINTER						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.00		2.19	.25 .04	2.01	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	292.54		92.20	.01	1.14	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	64.00	256.50				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	33.00	11.00	18.62	2.45	18.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES YES	YES YES	YES YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	PS	ST	PS	ST	77
78	RECEIVING WATER BODY						78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING			8.90			79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			25.50			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)						83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS)	6 845.76	2 35.00				85
86	COOLING TOWERS)		1 81.25	5 164.95	2 25.00	1 156.25	86
87	COMBINATIONS 21/						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1950 1966	1918 1952	1948 1958	1948 1949	1955	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/		13.00 19.00	20.00	16.00	15.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,100.10	211.70	264.00	59.60	186.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)						91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)						92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)		277.00	785.20	98.00	794.14	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)					57.06	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	3.47	13.30	26.80		20.47	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)					33.81	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	44.50	1.30	5.20		6.70	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	
NAME OF PLANT	LAKE CREEK	RIVER CREST	STRYKER	TRADINGHOUSE	TRINIDAD	
UTILITY-PLANT CODE	478500-0500	478500-0600	478500-0700	478500-0850	478500-0900	
STATE	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS	
COUNTY	MCLENNON	RED RIVER	CHEROKEE	MCLENNON	HENDERSON	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	212 12	022 11	022 12	212 12	022 12	
PLANT CAPACITY (MW)	315.63	112.50	703.48	580.50	412.11	
ANNUAL GENERATION (MWH) [3]	1,650,400	261,100	3,008,800	2,640,200	1,939,000	
PLANT HEAT RATE (BTU/KWH) [3]	10,642	11,535	10,359	9,726	10,561	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	2.39	2.92	2.83		6.49	
AVERAGE HEAT CONTENT (BTU/GAL)	150,046	146,150	152,000		154,347	
AVERAGE SULFUR CONTENT (%)	1.00	1.00				
GAS: CONSUMPTION (1,000 MCF)	17,005.40	2,874.53	31,169.87	25,464.00	18,547.45	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,032	1,152	1,032	1,008	1,101	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	1	2	1	9	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	8.00 10.00	8.00	8.00	8.00	10.00 18.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)						
SULFUR DIOXIDE (1,000 TONS)	.01					
NITROGEN OXIDES (1,000 TONS)	3.32	.57	6.08	4.97	3.63	
STACKS: - TOTAL NO.	3	2	4	1	6	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	150.00 181.00	156.00	161.00 197.00	170.00	141.75 390.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]						
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	77.23	20.16	96.74	94.69	282.22	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES: R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R BRAZOS	R SULPHUR	L STRYKER	M BRAZOS	R TRINITY	
AVERAGE RATE OF WITHDRAWAL (CFS)	5.50	.05	800.00	17.10	6.85	
AVERAGE RATE OF DISCHARGE (CFS)	2.00		800.00			
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.50	.05	6.88	17.10	6.85	
PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG DEC	AUG DEC	AUG DEC	JUL JAN	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			93.00 57.00			
AT OUTFALL, SUMMER - WINTER			107.00 72.00			
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	2,203.00		800.00			
- WINTER	1,292.00		800.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, L [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.30	.60	.15		1.55	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	92.54		72.26		59.50	
LIME (TONS), COOLING WATER - BOILER MAKEUP					15.00	
ALUM (TONS), COOLING WATER - BOILER MAKEUP					.50	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	10.00			15.00	14.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES YES	YES	YES	YES YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST	ST	
RECEIVING WATER BODY					O COOLING POND	
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)			2 703.48			
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)	2 315.63	1 112.50		1 580.50	6 412.11	
COOLING TOWER(S)						
COMBINATIONS [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1959	1953	1958 1965	1969	1926 1965	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	12.00 16.00	26.00	14.00 16.00	19.00	12.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	556.00	307.00	826.00	580.00	1,077.14	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			826.00			

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					
COOLING PONDS ($1,000)	1,008.92	781.35		4,075.54	280.86
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		7.00	47.40	.50	26.00
COST OF CHEMICAL ADDITIVES ($1,000)	2.17			.50	1.80

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		13.50	9.00	5.00	19.55
COST OF CHEMICAL ADDITIVES ($1,000)	14.70	2.00	10.24	15.00	6.64

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	TEXAS POWER & LIGHT CO.	THE CANAL ELECTRIC CO.	THE CINCINNATI GAS & ELECTRIC CO.	THE CINCINNATI GAS & ELECTRIC CO.	THE CINCINNATI GAS & ELECTRIC CO.		
NAME OF PLANT	VALLEY	CANAL	MIAMI FORT	BECKJORD	WEST END		
UTILITY-PLANT CODE	478500-1000	479000-0100	480500-0200	480500-0300	480500-0400		
STATE	TEXAS	MASSACHUSETTS	OHIO	OHIO	OHIO		
COUNTY	FANNIN	BARNSTABLE	HAMILTON	CLERMONT	HAMILTON		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	215 11	120 01	079 05	079 05	079 05		
PLANT CAPACITY (MW)	779.49	542.50	519.20	1,221.30	219.25		
ANNUAL GENERATION (MWH) [3]	2,683,700	2,816,500	1,969,800	6,943,800	762,200		
PLANT HEAT RATE (BTU/KWH) [3]	10,039	8,864	11,334	9,668	14,534		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)				969.30	3,037.60		
AVERAGE HEAT CONTENT (BTU/LB)				11,469	10,914		
AVERAGE SULFUR CONTENT (%)				3.71	2.81		
AVERAGE ASH CONTENT (%)				13.48	16.85		
AVERAGE MOISTURE CONTENT (%)				8.65	8.72		
OIL: CONSUMPTION (1,000 BARRELS)	.27	3,987.00	16.00	149.80			
AVERAGE HEAT CONTENT (BTU/GAL)	152,000	148,751	138,000	138,000			
AVERAGE SULFUR CONTENT (%)		2.45	.40	.40			
GAS: CONSUMPTION (1,000 MCF)	26,521.14				10,931.80		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,016				1,013		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	1	14	6	6		
- NO. OF WET BOTTOM			4				
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS							
- NO. WITH ELECTROSTATIC PRECIPITATORS				5			
- NO. WITH COMBINATION PRECIPITATORS [4]			1	1			
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	8.00	13.00	20.00 21.00	20.00 25.00	25.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH			96.00	95.00 98.00			
TESTED, LOW - HIGH							
EST., LOW - HIGH			96.00	90.00 98.00			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)		.67	55.42	24.67			
SULFUR DIOXIDE (1,000 TONS)		32.77	70.51	167.50			
NITROGEN OXIDES (1,000 TONS)	5.17	8.79	10.08	27.67	2.13		
STACKS: - TOTAL NO.	3	1	4	5	3		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	142.00 189.00	298.00	194.00 375.00	300.00 452.00	206.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]		.39					
TOTAL ASH: COLLECTED (1,000 TONS) [10]		.35	74.00	450.00			
SOLD (1,000 TONS) [11]		.35					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)				2,420.00			
COMBINATION PRECIPITATORS ($1,000) [4]			535.00	627.00			
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	112.12	184.00	420.00	2,353.00	78.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		4.00	15.00	40.00			
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		4.00	15.00	40.00			
TOTAL BYPRODUCT SALES REVENUES ($1,000)		52.00					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R REO	O CAPE COD CANAL	R OHIO	R OHIO	R OHIO		
AVERAGE RATE OF WITHDRAWAL (CFS)	.82	370.00	424.00	961.00	310.00		
AVERAGE RATE OF DISCHARGE (CFS)		370.00	424.00	961.00	310.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.82	3.18	3.65	8.26	2.67		
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL OEC	JUL JAN	JUL FEB	JUL FEB	JUL FEB		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		76.00 38.00	84.00 44.00	82.00 41.00	83.00 41.00		
AT OUTFALL, SUMMER - WINTER	96.00 55.00	101.00 68.00	94.00 51.00	92.00 67.00	93.00 51.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		1,650,000.00	40,000.00	40,000.00	40,000.00		
- WINTER		1,650,000.00	203,000.00	203,000.00	203,000.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C [16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.25						
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	80.88		261.00	413.35			
LIME (TONS), COOLING WATER - BOILER MAKEUP			18.25		12.25		
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		4.56	95.00	45.00			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST	PS		
RECEIVING WATER BODY			R OHIO	R OHIO			
POND DISCHARGE: [18] RH, BOILER BLOWDOWN - ASH SETTLING			10.00 10.70	9.00 10.10	10.30		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			450.00	15.00			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			6,480.00	2,427.00	4,093.50		
- ASH SETTLING			360,000.00	72,317.30			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)			6 519.20	6 1,221.30	6 328.65		
ONCE THROUGH COOLING (SALINE)		1 542.50					
COOLING PONDS)	2 779.49						
COOLING TOWERS)							
COMBINATIONS [21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1962 1967	1968	1925 1960	1952 1969	1918		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	14.00	28.00	10.00 19.00	17.00 23.00	10.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	823.00	350.00	918.00	1,146.00	540.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		373.00	918.00	1,146.00	540.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		1,500.00	402.00	1,116.00	336.00		
COOLING PONDS ($1,000)	918.21						
COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	.65	21.20	80.00	85.00	68.00		
COST OF CHEMICAL ADDITIVES ($1,000)		1.00	14.00	7.00			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.50	7.50	63.00	48.00	80.00		
COST OF CHEMICAL ADDITIVES ($1,000)	10.30	1.00	24.00	43.00	2.00		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1 NAME OF UTILITY	THE CONNECTICUT LIGHT & POWER CO.	THE CONNECTICUT LIGHT & POWER CO.	THE CONNECTICUT LIGHT & POWER CO.	THE DAYTON POWER & LIGHT CO.	THE DAYTON POWER & LIGHT CO.	
4 NAME OF PLANT	OEVON	MONTVILLE	NORWALK HARBOR	TAIT	HUTCHINGS	
5 UTILITY-PLANT CODE	481000-0300	481000-0500	481000-0600	481500-0200	481500-0300	
6 STATE	CONNECTICUT	CONNECTICUT	CONNECTICUT	OHIO	OHIO	
7 COUNTY	NEW HAVEN	NEW LONDON	FAIRFIELD	MONTGOMERY	MONTGOMERY	
8 AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	042 01	041 01	043 01	173 05	173 05	
9 PLANT CAPACITY (MW)	454.00	176.00	326.40	444.10	414.00	
10 ANNUAL GENERATION (MWH) 3/	2,461,900	972,800	1,879,500	2,212,400	2,089,400	
11 PLANT HEAT RATE (BTU/KWH) 3/	11,480	12,106	10,043	10,666	10,319	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	603.90	351.91	795.90	1,010.20	897.10	
13 AVERAGE HEAT CONTENT (BTU/LB)	11,535	12,381	11,620	11,663	12,005	
14 AVERAGE SULFUR CONTENT (%)	2.37	2.00	2.31	1.57	1.21	
15 AVERAGE ASH CONTENT (%)	15.79	13.86	17.24	13.04	11.22	
16 AVERAGE MOISTURE CONTENT (%)	8.07	7.48	7.09	7.20	6.27	
17 OIL: CONSUMPTION (1,000 BARRELS)	2,335.70	491.16	64.30			
18 AVERAGE HEAT CONTENT (BTU/GAL)	148,108	148,700	140,000			
19 AVERAGE SULFUR CONTENT (%)	1.89	1.89	.10			
20 GAS: CONSUMPTION (1,000 MCF)				347.80	173.90	
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,045	1,045	

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	12	7	2	6	6	
23 - NO. OF WET BOTTOM						
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS		2			6	
26 - NO. WITH ELECTROSTATIC PRECIPITATORS	4	3				
27 - NO. WITH COMBINATION PRECIPITATORS 4/	4		2	6		
28 - NO. WITH OESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	15.00	20.00 23.00	22.00	20.00 25.00	20.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : OESIGN, LOW - HIGH					86.50 90.10	
31 TESTED, LOW - HIGH					30.40 86.10	
32 ESTIMATED, LOW - HIGH		50.00			30.40 86.10	
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: OESIGN, LOW - HIGH	86.00 98.00	91.00 97.00	99.00	95.00 97.50		
34 TESTED, LOW - HIGH	95.60 98.70	94.00 99.40	98.70 99.40	67.90 97.50		
35 EST., LOW - HIGH	64.00 98.50	90.00 95.00	98.00 98.50	67.90 97.50		
36 OESULFURIZATION SYSTEM EFFICIENCY : OESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	2.20	4.30	2.02	9.51	26.58	
40 SULFUR OIOXIOE (1,000 TONS)	42.86	16.92	36.06	31.09	21.28	
41 NITROGEN OXIOES (1,000 TONS)	10.59	4.23	7.30	9.16	8.11	
42 STACKS: - TOTAL NO.	7	5	1	4	3	
43 - HEIGHT (FEET), LOWEST - HIGHEST 8/	220.00 357.50	171.00 249.00	350.00	307.00	250.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	.20					
45 TOTAL ASH: COLLECTED (1,000 TONS) 10/	104.50	78.90	132.30	130.20	86.30	
46 SOLD (1,000 TONS) 11/	8.60		9.50			
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					372.00	
51 ELECTROSTATIC PRECIPITATORS ($1,000)	2,195.00	539.00				
52 COMBINATION PRECIPITATORS ($1,000) 4/	278.00		1,546.00	1,334.00		
53 OESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	263.00	361.00	276.00	138.00	288.00	
55 ASH COLLECTION AND OISPOSAL EXPENSES ($1,000)	157.80	95.30	25.30	254.00	189.00	
56 REVENUES FROM SALE OF ASH ($1,000)	10.70					
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	513.70	118.50	50.50	252.00	189.00	
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)	10.70		1.60			

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES: R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R HOUSATONIC	R THAMES	O LONG IS SOUND	R GREAT MIAMI	R GREAT MIAMI	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	625.50	238.00	470.00	375.70	407.30	
63 AVERAGE RATE OF OISCHARGE (CFS)	625.50	238.00	470.00	374.90	406.90	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	5.38	2.05	4.04	3.23 .80	3.50 .40	
65 PEAK LOAD MONTH : SUMMER - WINTER 15/	SEP OEC	SEP OEC	SEP OEC	JUL JAN	JUL FEB	
66 MAX. TEMP. OURING PEAK MONTH (OEG. F.): AT OIVERSION, SUMMER - WINTER	73.00 35.00	72.00 46.00	74.00 38.00	79.00 47.00	90.00 56.00	
67 AT OUTFALL, SUMMER - WINTER	86.00 46.00	94.00 67.00	92.00 59.00	92.00 70.00	106.00 71.00	
68 AVE. FLOW IN RECEIVING BODY OURING PEAK MONTH (CFS): SUMMER				733.00	1,036.00	
69 - WINTER				2,219.00	2,360.00	
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/						
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	3.50	.32	.60	.08	5.50 .11	
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	2.40	.21	2.70	.08	.01	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP				56.03	34.33	
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	44.00		82.25		157.00	
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES YES	YES	YES	YES YES	
77 SEWAGE OISPOSAL: METHOD PS, ST, SW, OT 18/	ST	ST	ST	PS	SW	
78 RECEIVING WATER BODY					R GREAT MIAMI	
79 PONO OISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	7.00		7.30	8.00	8.50	
80 SUSPENOED SOLIOS (PPM), BOILER BLOWDOWN - ASH SETTLING				10.00	20.00	
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82 - ASH SETTLING	25,000.00		120,000.00	4,600.00	22,100.00	

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)				7 444.10	6 414.00	
84 ONCE THROUGH COOLING (SALINE)	7 454.00	5 176.00	2 326.40			
85 COOLING PONO(S)						
86 COOLING TOWER(S)						
87 COMBINATIONS 21/						
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1924 1958	1923 1954	1960 1963	1942 1959	1948 1953	
89 OESIGN: TEMP. RISE ACROSS CONDENSERS (OEG. F), SMALLEST - LARGEST 22/	11.70 17.30			12.00 15.00	13.40 16.50	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	816.40		440.00	595.60	579.00	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	887.70			595.60	579.00	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	1,345.00		1,979.00	1,198.00	983.00	
93 COOLING PONOS ($1,000)						
94 COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	46.10	2.30	83.00	60.00	104.00	
96 COST OF CHEMICAL ADDITIVES ($1,000)	4.50	12.10	15.40	7.00	16.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	45.00	15.30	23.00	6.00	8.00	
98 COST OF CHEMICAL ADDITIVES ($1,000)	24.00	1.40	2.70	3.00	1.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	THE DAYTON POWER & LIGHT CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	STUART	CONNERS CREEK	DELRAY	FERMI	HARBOR BEACH	4
5	UTILITY-PLANT CODE	5	4815OO-0400	4820OO-0200	4820OO-0400	4820OO-0500	4820OO-0700	5
6	STATE	6	OHIO	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	6
7	COUNTY	7	ADAMS	WAYNE	WAYNE	MONROE	HURON	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	081 05	123 04	123 04	124 04	125 04	8
9	PLANT CAPACITY (MW)	9	610.20	585.00	375.00	158.00	121.00	9
10	ANNUAL GENERATION (MWH) [3]	10	685,900	2,879,600	1,732,700	373,600	628,000	10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	9,803	13,090	13,970		10,362	11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	347.70	1,269.00	34.00		266.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,198	11,584	13,295		11,796	13
14	AVERAGE SULFUR CONTENT (%)	14	2.23	2.11	1.12		2.56	14
15	AVERAGE ASH CONTENT (%)	15	17.52	13.41	8.07		13.02	15
16	AVERAGE MOISTURE CONTENT (%)	16	7.04	7.32	4.59		6.61	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	42.10	234.36	3,215.30	925.24	40.29	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	137,116	136,473	149,860	137,345	136,822	18
19	AVERAGE SULFUR CONTENT (%)	19	.10	.31	2.05	.43	.50	19
20	GAS: CONSUMPTION (1,000 MCF)	20		6,788.00	22,676.00			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,021	361			21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	1	15	12	1	1	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25		11	12			25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	1				1	26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27		4				27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	18.00	24.50 25.00	25.00	10.00	20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30		80.00	80.00			30
31	TESTED, LOW - HIGH	31		80.00	78.80 92.30			31
32	ESTIMATED, LOW - HIGH	32		60.00	59.00 69.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33	98.00	98.00			99.60	33
34	TESTED, LOW - HIGH	34	92.00	98.90			99.40	34
35	EST., LOW - HIGH	35	92.00	99.00			99.50	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39	4.14	14.85	.74	.16	.15	39
40	SULFUR DIOXIDE (1,000 TONS)	40	15.21	52.72	22.86	1.33	13.41	40
41	NITROGEN OXIDES (1,000 TONS)	41	3.22	12.67	11.77	2.04	2.48	41
42	STACKS: - TOTAL NO.	42	1	8	6	1	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	800.00	252.00	270.00	158.50	300.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45	52.00	132.30	.30		34.40	45
46	SOLD (1,000 TONS) [11]	46		72.60				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50		1,000.00	1,923.00			50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51	1,427.00				455.00	51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52		2,262.00				52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54	1,835.00	443.00	104.00	110.00	241.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	9.00	187.00	5.00			55
56	REVENUES FROM SALE OF ASH ($1,000)	56		60.00	7.00			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59	9.00	787.00	92.00		55.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60		60.00	7.00			60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R OHIO	R DETROIT	R DETROIT	L ERIE	L HURON	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	508.00	800.00	775.00	84.00	155.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	507.50	800.00	775.00	84.00	155.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	4.37 .50	6.88	6.67	.72	1.33	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65		JUL DEC	JUL DEC	JUL DEC	JUL DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66		67.00 38.00	70.00 39.00	70.00 44.00	56.00 36.00	66
67	AT OUTFALL, SUMMER - WINTER	67		77.00 48.00	89.00 66.00	88.00 63.00	67.00 47.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		213,000.00	213,000.00			68
69	- WINTER	69		209,000.00	209,000.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]	70	C					70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		4.40	6.10		.25	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	100.00		719.92	49.99		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73				6.00		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	2.00	54.00	8.00	4.00	5.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	OT	PS	PS	OT	PS	77
78	RECEIVING WATER BODY	78	R OHIO			L ERIE		78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	79	6.90	8.50 8.00	11.00	8.50	8.50 8.00	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	10.00	200.00			30.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81		1,680.00	6,730.00	93.50	155.00	81
82	- ASH SETTLING	82	45,000.00	40,000.00			7,400.00	82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83	1 610.20	9 585.00	6 375.00	1 158.00	1 121.00	83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING POND(S)	85						85
86	COOLING TOWER(S)	86						86
87	COMBINATION [21]	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1970	1918 1951	1929 1942	1966	1968	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	22.00	14.00 19.00	13.00 19.00	25.00	13.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	481.00	1,680.00	1,710.00	290.00	200.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)	91	481.00	1,680.00	1,710.00	290.00	200.00	91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	8,000.00	1,434.00	451.00	912.00	362.00	92
93	COOLING PONDS ($1,000)	93						93
94	COOLING TOWERS ($1,000)	94						94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	2.00	168.00	168.00	12.00	12.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		6.00	1.00	1.00		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	9.00	713.00	727.00	100.00	86.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	10.00	2.00	55.00	3.00	1.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.		
4	NAME OF PLANT	MARYSVILLE	PENNSALT	RIVER ROUGE	ST. CLAIR	TRENTON CHANNEL		
5	UTILITY-PLANT CODE	482000-0800	482000-1000	482000-1200	482000-1400	482000-1600		
6	STATE	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN		
7	COUNTY	ST. CLAIR	WAYNE	WAYNE	ST. CLAIR	WAYNE		
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	123 04	123 04	123 04	123 04	123 04		
9	PLANT CAPACITY (MW)	300.00	37.00	933.00	1,905.00	1,076.00		
10	ANNUAL GENERATION (MWH) [3]	1,222,400	66,800	5,210,900	12,620,400	5,912,900		
11	PLANT HEAT RATE (BTU/KWH) [3]	13,760		9,520	9,090	11,190		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	769.00	160.00	1,885.00	4,798.00	2,104.00		
13	AVERAGE HEAT CONTENT (BTU/LB)	11,733	11,862	12,265	11,837	11,850		
14	AVERAGE SULFUR CONTENT (%)	1.98	.96	3.42	2.98	2.08		
15	AVERAGE ASH CONTENT (%)	13.30	12.60	11.21	12.98	13.26		
16	AVERAGE MOISTURE CONTENT (%)	6.73	7.05	5.81	6.47	5.47		
17	OIL: CONSUMPTION (1,000 BARRELS)		13.79	330.04	(48.02	135.46		
18	AVERAGE HEAT CONTENT (BTU/GAL)		136,669	(49,533	[51,323	135,496		
19	AVERAGE SULFUR CONTENT (%)		.44	2.05	2.06	.57		
20	GAS: CONSUMPTION (1,000 MCF)	218.00		20,549.00	240.00	17,257.00		
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	997		910	996	1,022		

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	10	4	3	7	18		
23	- NO. OF WET BOTTOM							
24	- NO. WITH FLY ASH REINJECTION							
25	- NO. WITH MECHANICAL PRECIPITATORS		2					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	4			2	18		
27	- NO. WITH COMBINATION PRECIPITATORS [4]		2	3	5			
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	22.00 25.00	22.00	18.00	13.00 23.00	18.00 24.50		
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		75.00					
31	TESTED, LOW - HIGH		71.00					
32	EST(MATED, LOW - HIGH		53.00					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	99.60	97.66	97.40 97.80	91.60 99.60	85.00 99.60		
34	TESTED, LOW - HIGH	99.50	97.00 99.20	90.00 97.20	88.50 99.00	93.30 99.20		
35	EST., LOW - HIGH	99.00	96.00 98.00	88.00 97.50	80.00 97.20	88.00 98.00		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	EST(MATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER ((,000 TONS)	20.55	1.87	10.19	2(.11	8.25		
40	SULFUR OXIDE (1,000 TONS)	29.84	3.05	128.63	281.26	86.03		
41	NITROGEN OXIDES (1,000 TONS)	6.62	(.48	21.70	57.86	22.60		
42	STACKS: - TOTAL NO.	8	4	3	7	7		
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	201.00 300.00	223.00	385.00 425.00	250.00 600.00	235.00 563.00		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	60.50	(7.20	199.00	500.20	271.20		
46	SOLD (1,000 TONS) [11]			84.60	((.10	38.90		
47	TOTAL SULFUR: ELEMENTAL COLLECTED ((,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD 11,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
51	ELECTROSTATIC PRECIPITATORS ($(,000)	3,144.00			5,472.00	7,(69.00		
52	COMBINATION PRECIPITATORS ($(,000) [4]		(,096.00	5,7(2.00	5,099.00			
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)	(12.00	40.00	817.00	2,794.00	1,690.00		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($(,000)	157.00	32.00	(40.00	5(5.00	199.00		
56	REVENUES FROM SALE OF ASH ($1,000)	4.00		29.00	15.00	69.00		
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($(,000) [13]	471.00	91.00	532.00	1,436.00	890.00		
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	4.00		29.00	15.00	69.00		

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ST. CLAIR	R DETROIT	R DETROIT	R ST. CLAIR	R DETROIT		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	885.00	26.80	1,007.00	1,854.00	(,400.00		
63	AVERAGE RATE OF DISCHARGE (CFS)	885.00	25.40	1,007.00	1,854.00	1,400.00		
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	7.61	.23 (.40	8.66	15.94	12.04		
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	64.00 35.00	70.00 42.00	70.00 41.00	62.00 45.00	69.00 42.00		
67	AT OUTFALL, SUMMER - WINTER	70.00 47.00	90.00 62.00	85.00 54.00	76.00 60.00	84.00 50.00		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	206,000.00	213,000.00	213,000.00	206,000.00	213,000.00		
69	- WINTER	208,000.00	209,000.00	209,000.00	208,000.00	209,000.00		
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]							
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP			.30	.38	3.98		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	234.96	.80	181.04	(22.85	653.61		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		102.93			37.40		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	5.00		670.57	37.00	270.90		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	PS	PS	PS	PS		
78	RECEIVING WATER BODY							
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	10.00 8.00	11.00 8.50	8.50 8.00	11.00 8.00	11.00 8.00		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	500.00	50.00	(5.00	15.00	(0.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	580.00	6,900.00	840.00	3,380.00	2,040.00		
82	- ASH SETTLING	9,900.00	(2,300.00	[3,000.00	18,800.00	[6,930.00		

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	7 300.00	7 37.00	3 933.00	7 1,905.00	9 1,076.00		
84	ONCE THROUGH COOLING (SALINE)							
85	COOLING POND(S)							
86	COOLING TOWER(S)							
87	COMBINATION [21]							
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1922 1947	(964	1956 1958	[953 1969	1924 [968		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	7.00 15.00		15.00 17.00	15.00 20.00	8.00 25.00		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	(,047.00	67.00	1,004.00	2,070.00	2,132.00		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,047.00	67.00	1,004.00	2,070.00	2,(32.00		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	136.00	16.00	2,238.00	4,031.00	935.00		
93	COOLING PONDS ($(,000)							
94	COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	192.00	33.00	106.00	(29.00	278.00		
96	COST OF CHEMICAL ADDITIVES ($1,000)	(.00	(.00	45.00	1.00	17.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($(,000)	429.00	236.00	1,019.00	972.00	1,133.00		
98	COST OF CHEMICAL ADDITIVES ($1,000)	21.00	5.00	20.00	20.00	66.00		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	1	THE DETROIT EDISON CO.		THE HARTFORD ELECTRIC LIGHT CO.		THE HARTFORD ELECTRIC LIGHT CO.		THE HARTFORD ELECTRIC LIGHT CO.		THE KANSAS POWER & LIGHT CO.	1
2		2										2
3		3										3
4	NAME OF PLANT	4	WYANDOTTE		MIDDLETOWN		SOUTH MEADOW		STAMFORD		HUTCHINSON	4
5	UTILITY-PLANT CODE	5	482000-1700		483000-0300		483000-0400		483000-0500		483500-0300	5
6	STATE	6	MICHIGAN		CONNECTICUT		CONNECTICUT		CONNECTICUT		KANSAS	6
7	COUNTY	7	WAYNE		MIDDLESEX		HARTFORD		FAIRFIELD		RENO	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	123 04		042 01		042 01		043 01		099 11	8
9	PLANT CAPACITY (MW)	9	54.00		422.00		216.75		52.50		252.20	9
10	ANNUAL GENERATION (MWH) [3]	10	120,600		2,987,100		1,007,000		192,200		1,385,800	10
11	PLANT HEAT RATE (BTU/KWH) [3]	11			9,757		14,165		16,522		10,925	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12	407.00		96.49				4.90			12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,464						12,692			13
14	AVERAGE SULFUR CONTENT (%)	14	.92						3.00			14
15	AVERAGE ASH CONTENT (%)	15	13.19						14.25			15
16	AVERAGE MOISTURE CONTENT (%)	16	8.07						4.05			16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	110.28		4,293.31		2,289.40		464.10		118.58	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	136,653		148,311		148,287		149,337		154,000	18
19	AVERAGE SULFUR CONTENT (%)	19	.47		2.01		2.00		2.22		1.50	19
20	GAS: CONSUMPTION (1,000 MCF)	20					.32		131.25		14,068.88	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21					1,000		1,000		1,022	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	5		4		6		5		4	22
23	- NO. OF WET BOTTOM	23	4		3							23
24	- NO. WITH FLY ASH REINJECTION	24			1							24
25	- NO. WITH MECHANICAL PRECIPITATORS	25					3					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	2		1				2			26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27	2		2				1			27
28	- NO. WITH DESULFURIZATION SYSTEMS	28										28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	18.00	26.00	5.00	18.00	12.00	28.00	15.00	30.00	8.00	15.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30						87.00					30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32						35.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33	99.0	99.60	97.00	98.50			90.50	98.00			33
34	TESTED, LOW - HIGH	34	98.90	99.00	97.20	98.80			90.50	95.50			34
35	EST., LOW - HIGH	35		99.20		67.00			90.00	95.00			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39	.30		.24		.30		.06		.02	39
40	SULFUR DIOXIDE (1,000 TONS)	40	7.51		28.95		15.36		3.74		.60	40
41	NITROGEN OXIDES (1,000 TONS)	41	6.35		10.91		5.05		1.09		3.00	41
42	STACKS: - TOTAL NO.	42	5		3		5		4		5	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	229.00		266.00		164.90 206.50		141.75 178.60		75.00 148.50	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44			.97		.20					44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45	53.00		6.65		.45		.90			45
46	SOLD (1,000 TONS) [11]	46										46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47										47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48										48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49										49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50						280.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51	1,170.00		511.00							51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52	994.00		560.00							52
53	DESULFURIZATION SYSTEMS ($1,000)	53										53
54	STACKS ($1,000)	54						45.20		72.00		44.80	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	110.00		32.62			13.50		12.00			55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59	233.00		157.04		68.00		12.00			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60										60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R DETROIT		R CONNECTICUT		R CONNECTICUT		H STAMFORD		W		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	152.20		340.50		418.00		83.60		5.92	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	112.90		340.50		418.00		83.60		1.97	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	1.31	39.30	2.93		3.59		.72		3.95	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	JUL	DEC	SEP	DEC	SEP	DEC	AUG	JAN	AUG	DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	70.00	42.00	77.00	42.00	75.00	41.00	80.00	40.00	60.00	60.00	66
67	AT OUTFALL, SUMMER - WINTER	67	90.00	62.00	101.00	80.00	88.00	53.00	92.00	56.00	85.00	40.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		213,000.00		5,890.00		5,890.00	TIDAL			21.00	68
69	- WINTER	69		209,000.00		12,400.00		12,400.00	TIDAL			42.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		7.10		.02		.57		.75	25.25	.20	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		.55		.01		.89		1.32		.08	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73		269.81									73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	27.00		72.00		34.00		8.00		20.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76		YES		YES		YES		YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	PS		ST		PS		PS		ST		77
78	RECEIVING WATER BODY	78			O LEACHING FIELD						O DRAIN FIELD		78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	79	11.00	8.50		6.80					9.50		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		50.00									80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81		12,500.00								15.00	81
82	- ASH SETTLING	82		24,000.00		70,455.70							82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83	8	54.00	3	422.00	6	221.75					83
84	ONCE THROUGH COOLING (SALINE)	84							3	52.50			84
85	COOLING POND(S)	85											85
86	COOLING TOWER(S)	86									4	252.20	86
87	COMBINATION [21]	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88		1965	1954	1964	1921	1950	1923	1940	1949	1965	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	10.00	20.00	18.00	21.00		12.00		10.00	10.90	14.80	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		46.00		440.00		508.00		184.50		402.20	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		46.00		440.00		508.00		184.50			91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92								298.00			92
93	COOLING PONDS ($1,000)	93											93
94	COOLING TOWERS ($1,000)	94										1,918.00	94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95		55.00		88.25		69.10		20.00		40.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		3.00		7.74		3.50		.80		25.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		436.00		40.50		15.90		20.00		16.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		11.00		14.43		2.20		1.20		1.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	THE KANSAS POWER & LIGHT CO.	THE KANSAS POWER & LIGHT CO.	THE KANSAS POWER & LIGHT CO.	THE MONTANA POWER CO.	THE MONTANA POWER CO.	
NAME OF PLANT	LAWRENCE	ABILENE	TECUMSEH	BIRD	COPETTE	
UTILITY-PLANT CODE	483500-0500	483500-0600	483500-0700	484500-0400	484500-0700	
STATE	KANSAS	KANSAS	KANSAS	MONTANA	MONTANA	
COUNTY	DOUGLAS	DICKINSON	SHAWNEE	YELLOWSTONE	YELLOWSTONE	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	095 10	096 10	095 10	140 10	140 10	
PLANT CAPACITY (MW)	210.15	33.75	346.10	69.00	172.80	
ANNUAL GENERATION (MWH) [3]	1,054,900	66,800	1,641,000	169,700	699,800	
PLANT HEAT RATE (BTU/KWH) [3]	11,054	14,187	11,314	12,961	10,000	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	70.11		66.18		403.00	
AVERAGE HEAT CONTENT (BTU/LB)	12,200		12,300		8,591	
AVERAGE SULFUR CONTENT (%)	3.70		3.70		.69	
AVERAGE ASH CONTENT (%)	13.20		12.60		8.66	
AVERAGE MOISTURE CONTENT (%)	6.80		6.50		24.22	
OIL: CONSUMPTION (1,000 BARRELS)	35.10	19.44	16.34	26.00		
AVERAGE HEAT CONTENT (BTU/GAL)	144,300	150,000	147,500	153,095		
AVERAGE SULFUR CONTENT (%)	2.20		1.60	4.20		
GAS: CONSUMPTION (1,000 MCF)	9,643.88	844.10	18,268.57	1,812.00	657.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,010	981	1,021	1,097	1,097	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	2	9	1	1	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION			2			
- NO. WITH MECHANICAL PRECIPITATORS					1	
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS	1					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00 20.00	20.00	8.00 30.00	20.00	21.00	
MECHANICAL PRECIPITATOR EFFICIENCY : OESIGN, LOW - HIGH			85.00			
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH			85.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: OESIGN, LOW - HIGH					97.00	
TESTED, LOW - HIGH					95.20	
EST., LOW - HIGH					98.00	
DESULFURIZATION SYSTEM EFFICIENCY : OESIGN, LOW - HIGH	83.00					
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH	65.00					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	7.87		2.06		.59	
SULFUR DIOXIDE (1,000 TONS)	5.34		4.89	.37	5.45	
NITROGEN OXIDES (1,000 TONS)	2.59	.21	4.19	.41	3.76	
STACKS: - TOTAL NO.	5	2	8	1	1	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	123.00 170.00	168.00	153.00 203.00	150.00	350.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	6.00				34.50	
TOTAL ASH: COLLECTED (1,000 TONS) [10]	8.00		7.20		2.00	
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			170.00		969.00	
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	78.00	31.30	240.00	39.00	269.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	36.00		12.00		15.00	
REVENUES FROM SALE OF ASH ($1,000)					6.00	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	25.00					
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)			12.00		15.00	
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	61.00				6.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	PW KANSAS	P SMOKY HILL	R KANSAS	P YELLOWSTONE	R YELLOWSTONE	
AVERAGE RATE OF WITHDRAWAL (CFS)	5.42	50.48	27.23	55.00	90.00	
AVERAGE RATE OF DISCHARGE (CFS)	1.91	50.48	24.37	55.00	90.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.51	.43	2.86	.47	.77	
PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 38.00	101.00 58.00	92.00 35.00	T3.50 32.00	T3.50 32.00	
AT OUTFALL, SUMMER - WINTER	88.00 70.00		102.40 43.60	90.00 37.00	90.00 37.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,620.00	147.00	1,620.00	5,531.00	5,531.00	
- WINTER	1,480.00	152.00	1,480.00	3,189.00	3,189.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	9.65 .15	.15	11.25 .50	.05	.15	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	34.11	1.60		.02	.03	
LIME (TONS), COOLING WATER - BOILER MAKEUP	251.10 5.63		536.11			
ALUM (TONS), COOLING WATER - BOILER MAKEUP	13.74 .50		22.35			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	18.00		33.00			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES	YES YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	SW	SW	GT	OT	
RECEIVING WATER BODY			R KANSAS			
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	10.50 9.00	9.50	10.00 9.50		8.00	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	25.00 100.00		500.00		300.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	30.00	21.00	265.00			
- ASH SETTLING	1,600.00		7,500.00		400.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		2 33.75	4 115.00	1 69.00	1 172.80	
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS(S)						
COOLING TOWER(S)	4 210.15		2 231.10			
COMBINATIONS [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1960 1969	1940 1947	1927 1962	1951	1968	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	11.80 14.40	9.67 11.00	12.30 17.20	24.20	28.80	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	360.80	103.61	605.60	T5.70	115.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		103.61	280.30	75.70	115.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		193.00	555.00	113.00	396.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	2,533.00		1,844.00			

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	20.00	12.00	45.00	1.00	2.00	
COST OF CHEMICAL ADDITIVES ($1,000)	22.00		31.00			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.00	14.00	82.00	2.00	10.00	
COST OF CHEMICAL ADDITIVES ($1,000)	13.00	1.00	18.00		1.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	THE NARRAGANSETT ELECTRIC CO.	THE NARRAGANSETT ELECTRIC CO.	THE POTOMAC EDISON CO.	THE POTOMAC EDISON CO.	THE TOLEDO EDISON CO.	
NAME OF PLANT	MANCHESTER STREET	SOUTH STREET	CUMBERLAND	SMITH	ACME	
UTILITY-PLANT CODE	485000-0100	485000-0300	486500-0200	486500-0300	488000-0100	
STATE	RHODE ISLAND	RHODE ISLAND	MARYLAND	MARYLAND	OHIO	
COUNTY	PROVIDENCE	PROVIDENCE	ALLEGANY	WASHINGTON	LUCAS	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	120 01	120 01	113 02	113 02	124 04	
PLANT CAPACITY (MW)	132.00	145.88	30.00	159.50	337.00	
ANNUAL GENERATION (MWH) [3]	770,600	663,500	89,200	548,900	743,200	
PLANT HEAT RATE (BTU/KWH) [3]	11,870	14,201	14,182	13,023	13,826	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)			54.00	314.90	350.00	
AVERAGE HEAT CONTENT (BTU/LB)			11,231	11,300	11,422	
AVERAGE SULFUR CONTENT (%)			1.95	1.63	2.45	
AVERAGE MOISTURE CONTENT (%)			18.68	17.01	13.32	
AVERAGE ASH CONTENT (%)			5.75	6.97	6.15	
OIL: CONSUMPTION (1,000 BARRELS)	1,073.70	1,525.70	1.42	4.48	101.00	
AVERAGE HEAT CONTENT (BTU/GAL)	148,704	148,737	139,000	139,000	150,504	
AVERAGE SULFUR CONTENT (%)	2.38	2.17	.25	.25	.99	
GAS: CONSUMPTION (1,000 MCF)	2,209.60				2,002.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,038				548	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	10	1	6	10	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS	3	2		4	1	
- NO. WITH ELECTROSTATIC PRECIPITATORS		2		2	2	
- NO. WITH COMBINATION PRECIPITATORS [4]			1		3	
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	15.00 12.00	40.00	20.00	20.00 50.00	25.00	115.00
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00	86.00		83.00		60.00
TESTED, LOW - HIGH				43.00 54.00		
ESTIMATED, LOW - HIGH				50.00		60.00
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	90.00		95.00	94.00 95.00	97.40	99.50
TESTED, LOW - HIGH			98.00	96.30 99.00	97.40	99.80
EST., LOW - HIGH	90.00		98.00	97.00	96.50	99.50
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.03	.10	.17	3.67	1.64	
SULFUR DIOXIDE (1,000 TONS)	8.57	11.21	2.07	10.06	17.15	
NITROGEN OXIDES (1,000 TONS)	2.80	3.39	.49	2.77	3.24	
STACKS: - TOTAL NO.	2	5	2	8	4	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	207.00 208.00	107.00 325.00	145.00	132.00 200.00	246.00	298.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	.06	.10	15.00			
TOTAL ASH: COLLECTED (1,000 TONS) [10]	.06		9.30	61.00	47.50	
SOLD (1,000 TONS) [11]	.06			4.00		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	179.40	101.60		180.00	86.00	
ELECTROSTATIC PRECIPITATORS ($1,000)		256.80		674.00	720.00	
COMBINATION PRECIPITATORS ($1,000) [4]			410.00		680.00	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	40.80	279.40	10.00	59.00	194.10	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	5.00	10.00	17.00	103.40	210.00	
REVENUES FROM SALE OF ASH ($1,000)	8.80			4.30		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	22.60	54.06	18.50	103.40	210.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)	8.80			4.30		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B PROVIDENCE	B PROVIDENCE	R POTOMAC	R POTOMAC	R MAUMEE	
AVERAGE RATE OF WITHDRAWAL (CFS)	360.00	250.00	45.00	300.00	244.00	
AVERAGE RATE OF DISCHARGE (CFS)	360.00	262.00	45.00	299.90	244.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.10	2.15	.39	2.58 .10	2.10	
PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG OEC	AUG OEC	JUL OEC	JUL OEC	JUL	OEC
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	79.00 54.00	87.00 54.00	79.00 44.00	80.00 36.00	80.00	52.00
AT OUTFALL, SUMMER - WINTER	91.00 66.00	104.00 71.00	91.00 56.00	94.00 50.00	91.00	64.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	360.00	262.00	205.00	1,190.00	4,400.00	
- WINTER	360.00	262.00	705.00	3,340.00	6,371.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	4.04	50.56	.06	.21	.63	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	1.32	1.04		38.20	22.56	
LIME (TONS), COOLING WATER - BOILER MAKEUP				7.00		
ALUM (TONS), COOLING WATER - BOILER MAKEUP				.35		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	10.25	10.30	12.00	.23 .23	64.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES		YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	PS	PS		PS	
RECEIVING WATER BODY						
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING				9.10	8.10	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				40.00	157.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING				41,474.22	3,100.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)			1 25.00	4 159.50	5 314.50	
ONCE THROUGH COOLING (SALINE)	3 146.00	4 188.00				
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATIONS [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1941 1947	1924 1953	1937	1923 1957	1918	1951
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	12.00	17.00 30.00	12.00	12.00 18.00	14.00	21.50
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	360.00	399.00	71.00	349.50	607.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	399.00	399.00	71.00	349.50	607.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)	945.00	2,145.00	246.00	657.00	1,158.00	
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.50	1.00	3.50	71.60	13.00	
COST OF CHEMICAL ADDITIVES ($1,000)	2.40	2.42	1.20	.13	5.10	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	500.00	.50	5.50	45.00	32.50	
COST OF CHEMICAL ADDITIVES ($1,000)	1.89	12.48	.10	6.00	5.50	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	THE TOLEDO EDISON CO.	THE TUCSON GAS & ELECTRIC CO.	THE TUCSON GAS & ELECTRIC CO.	THE UNITED ILLUMINATING CO.	THE UNITED ILLUMINATING CO.		
NAME OF PLANT	BAY SHORE	OEMOSS PETRIE	IRVINGTON	BRIDGEPORT HARBOR	ENGLISH		
UTILITY-PLANT CODE	488000-0200	488500-0100	488500-0200	489500-0100	489500-0200		
STATE	OHIO	ARIZONA	ARIZONA	CONNECTICUT	CONNECTICUT		
COUNTY	LUCAS	PIMA	PIMA	FAIRFIELD	NEW HAVEN		
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	124 04	015 15	015 15	043 01	042 01		
PLANT CAPACITY (MW)	639.00	104.50	504.50	660.50	146.30		
ANNUAL GENERATION (MWH) 3/	3,825,100	153,600	2,005,500	4,310,500	642,200		
PLANT HEAT RATE (BTU/KWH) 3/	9,326	14,953	10,135	10,005	15,840		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,480.00						
AVERAGE HEAT CONTENT (BTU/LB)	12,047						
AVERAGE SULFUR CONTENT (%)	2.22						
AVERAGE ASH CONTENT (%)	12.84						
AVERAGE MOISTURE CONTENT (%)	5.95						
OIL: CONSUMPTION (1,000 BARRELS)	8.00		2.10	6,880.00	1,616.00		
AVERAGE HEAT CONTENT (BTU/GAL)	137,859		144,150	149,117	149,860		
AVERAGE SULFUR CONTENT (%)	.45		1.09	2.19	2.46		
GAS: CONSUMPTION (1,000 MCF)		2,130.20	18,872.10				
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,075	1,075				

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4		4		4		3		14
- NO. OF WET BOTTOM							2		
- NO. WITH FLY ASH REINJECTION							3		
- NO. WITH MECHANICAL PRECIPITATORS									
- NO. WITH ELECTROSTATIC PRECIPITATORS	2						3		2
- NO. WITH COMBINATION PRECIPITATORS 4/	2								
- NO. WITH DESULFURIZATION SYSTEMS									
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	17.00	23.00	5.00	15.00	7.50	12.00	30.00	19.00	30.00
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH									
TESTED, LOW - HIGH									
ESTIMATED, LOW - HIGH						97.50	99.50		95.00
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	98.50	99.50							
TESTED, LOW - HIGH		95.10							
EST., LOW - HIGH	97.00	99.60				7.50	53.00		50.00
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH									
TESTED, LOW - HIGH									
ESTIMATED, LOW - HIGH									

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	1.93				.80		.21		
SULFUR DIOXIDE (1,000 TONS)	64.41		.01		50.55		13.34		
NITROGEN OXIDES (1,000 TONS)	12.26	.42	3.68		15.17		3.56		
STACKS: - TOTAL NO.	4	4	4		3		6		
- HEIGHT (FEET), LOWEST - HIGHEST 8/	250.00	101.00 198.00	130.00 146.00	203.00	498.00	233.00	235.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/									
TOTAL ASH: COLLECTED (1,000 TONS) 10/	185.70				1.20		.40		
SOLD (1,000 TONS) 11/									
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)									
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/									
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)									
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	803.80				2,167.30		247.94		
ELECTROSTATIC PRECIPITATORS ($1,000)	937.20								
COMBINATION PRECIPITATORS ($1,000) 4/									
DESULFURIZATION SYSTEMS ($1,000)	839.20				914.25		155.93		
STACKS ($1,000)	179.00				51.00		10.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)									
REVENUES FROM SALE OF ASH ($1,000)									
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)									
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)									
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	179.00				216.00		43.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)									

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B MAUMEE		W		W		H BRIDGEPORT		R MILL	
AVERAGE RATE OF WITHDRAWAL (CFS)	1,031.00		1.42		6.54		687.72		330.41	
AVERAGE RATE OF DISCHARGE (CFS)	1,031.00		.34				687.72		330.41	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	8.87		1.08		5.54		5.91		2.84	
PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL	DEC	SEP	JAN	SEP	JAN	SEP	DEC	SEP	DEC
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00	48.00					80.00	46.00	88.00	54.00
AT OUTFALL, SUMMER - WINTER	88.00	57.00	85.00	65.00	110.00	85.00	103.00	72.00	99.00	67.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER								698.63		199.11
- WINTER								823.69		176.45
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/										
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.08	10.00	.03	35.00	.05		.50		8.70
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		8.63		.35		19.34				10.40
LIME (TONS), COOLING WATER - BOILER MAKEUP										
ALUM (TONS), COOLING WATER - BOILER MAKEUP										
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	240.00		2.00		7.00					
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	OT		PS		PS		PS/ST		ST/SW	
RECEIVING WATER BODY	B MAUMEE								R MILL	
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING		8.16						6.50		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		62.00						3,000.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING		17,000.00								

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	4	638.00					1	399.50	8	146.25
ONCE THROUGH COOLING (SALINE)										
COOLING POND(S)			4	104.50	4	504.50				
COOLING TOWER(S)							2	261.00		
COMBINATIONS 21/										
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1955	1968	1949	1954	1958	1967	1957	1968	1929	1953
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	9.50	13.40	15.00	18.00	21.00	28.00	11.20	17.90	7.40	18.20
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		1,149.00		218.00		402.00		837.01		581.08
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		1,149.00						837.01		581.08

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	3,298.00						3,398.63		873.70	
COOLING PONDS ($1,000)			587.00		1,089.00		100.18			
COOLING TOWERS ($1,000)										

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	13.30				178.90		92.80		
COST OF CHEMICAL ADDITIVES ($1,000)	20.30	5.48	30.62		26.80		7.90		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	36.40				123.60		62.40		
COST OF CHEMICAL ADDITIVES ($1,000)	4.00	317.00	2.89		50.00		3.50		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	THE UNITED ILLUMINATING CO.		UNION ELECTRIC CO.		UNION ELECTRIC CO.		UNION ELECTRIC CO.		UNION ELECTRIC CO.
4	NAME OF PLANT	STEEL		ASHLEY		CAHOKIA		MERAMEC		MOUND
5	UTILITY-PLANT CODE	489500-0400		512500-0100		512500-0200		512500-0400		512500-0500
6	STATE	CONNECTICUT		MISSOURI		ILLINOIS		MISSOURI		MISSOURI
7	COUNTY	FAIRFIELD		CITY OF ST. LOUIS		ST. CLAIR		CITY OF ST. LOUIS		CITY OF ST. LOUIS
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	043	01	070	07	070	07	070	07	070	07
9	PLANT CAPACITY (MW)	155.50		70.00		300.00		923.00		40.00	
10	ANNUAL GENERATION (MWH) [3]	670,300		63,100		467,000		4,875,500		16,700	
11	PLANT HEAT RATE (BTU/KWH) [3]	18,038		27,277		18,779		10,349		19,647	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)			249.00		229.60		2,059.00			12
13	AVERAGE HEAT CONTENT (BTU/LB)			11,144		11,132		11,090			13
14	AVERAGE SULFUR CONTENT (%)			2.59		3.40		2.94			14
15	AVERAGE ASH CONTENT (%)			10.66		9.74		11.68			15
16	AVERAGE MOISTURE CONTENT (%)			11.56		11.84		10.97			16
17	OIL: CONSUMPTION (1,000 BARRELS)	1,930.00		2.30		568.90				29.50	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	149,177		138,000		152,000				152,000	18
19	AVERAGE SULFUR CONTENT (%)	2.22		.10		2.36				2.00	19
20	GAS: CONSUMPTION (1,000 MCF)							3,944.60		137.90	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)							1,050		1,050	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	27		5		22		4		6	22
23	- NO. OF WET BOTTOM										23
24	- NO. WITH FLY ASH REINJECTION										24
25	- NO. WITH MECHANICAL PRECIPITATORS										25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	7		5		8		4			26
27	- NO. WITH COMBINATION PRECIPITATORS [4]										27
28	- NO. WITH DESULFURIZATION SYSTEMS							1			28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	19.00	30.00	23.00		23.00		23.00		23.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH										30
31	TESTED, LOW - HIGH										31
32	ESTIMATED, LOW - HIGH										32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	95.00		90.00		90.00		97.50	98.00		33
34	TESTED, LOW - HIGH			89.10	96.60	84.00	98.30	97.20	98.80		34
35	EST., LOW - HIGH	11.00	60.00		97.00		95.00		98.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH										36
37	TESTED, LOW - HIGH										37
38	ESTIMATED, LOW - HIGH								60.00		38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.25		.68		1.05		4.09			39
40	SULFUR DIOXIDE (1,000 TONS)	14.37		12.64		19.80		118.65		.20	40
41	NITROGEN OXIDES (1,000 TONS)	4.26		2.24		3.32		19.30		.09	41
42	STACKS: - TOTAL NO.	7		4		6		4		3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	175.00	182.00	180.00	186.00	329.00	250.00	350.00	152.17	173.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]										44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	.40		26.00		26.10		237.00			45
46	SOLD (1,000 TONS) [11]							66.00			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)										47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]										48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)										49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)										50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	385.55		364.00		847.00		2,973.00			51
52	COMBINATION PRECIPITATORS ($1,000) [4]										52
53	DESULFURIZATION SYSTEMS ($1,000)							1,304.00			53
54	STACKS ($1,000)	191.48		92.00		318.00		850.00		22.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	63.00		81.10		66.80		160.30			55
56	REVENUES FROM SALE OF ASH ($1,000)							100.00			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							160.20			57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)										58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	96.00		96.10		116.80		332.50			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							100.00			60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	H BRIDGEPORT		P MISSISSIPPI		R MISSISSIPPI		R MISSISSIPPI		R MISSISSIPPI		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	248.79		36.00		162.00		590.00		1.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	248.79		36.00		162.00		590.00		1.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	2.14		.31		1.39		5.07		.01		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	SEP	DEC	JUL	DEC	JUL	DEC	JUL	DEC	JUL	DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	79.00	59.00	84.00		86.00	44.00	86.00	36.00	86.00	43.00	66
67	AT OUTFALL, SUMMER - WINTER	110.00	76.00	107.00		107.00	64.00	105.00	63.00	106.00	63.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		243.72		144,600.00		144,600.00		144,600.00		144,600.00	68
69	- WINTER		262.38		117,400.00		117,400.00		117,400.00		117,400.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C [16]											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		8.85		41.86		8.85		8.63		.40	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		15.80				.07		419.90		.20	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				400.30		49.91		122.50			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP											74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP						7.50		220.00			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES		YES		YES		YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS		PS		SW		ST		PS		77
78	RECEIVING WATER BODY			R MISSISSIPPI		R MISSISSIPPI		R MISSISSIPPI				78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING				8.10							79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				1,331.00							80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN											81
82	- ASH SETTLING				72.00							82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)			4	70.00	6	310.00	4	923.00	4	40.00	83
84	ONCE THROUGH COOLING (SALINE)	11	155.50									84
85	COOLING POND(S)											85
86	COOLING TOWER(S)											86
87	COMBINATIONS [21]											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1923	1950	1917	1920	1924	1937	1953	1961	1926	1940	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	13.10	18.70		20.00		20.00	15.50	22.30		20.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		420.16		285.00		857.00		928.00		160.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH CUOLING SYSTEMS (CFS)		420.16		285.00		857.00		928.00		160.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,122.00		120.00		335.00		7,638.00		331.00	92
93	COOLING PONDS ($1,000)										93
94	COOLING TOWERS ($1,000)										94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	48.30		10.00		24.00		60.00		10.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	10.40				1.00		16.00			96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	90.30		12.00		27.00		70.00		10.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	10.10		51.00		5.00		42.00		.60	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

NAME OF UTILITY	UNION ELECTRIC CO.	UNION ELECTRIC CO.	UNION ELECTRIC CO.	UNION ELECTRIC CO.	UNITED POWER ASSOC.	
NAME OF PLANT	SIOUX	VENICE #1	VENICE #2	LABADIE	STANTON	
UTILITY-PLANT CODE	512500-0700	512500-1000	512500-1100	512500-1200	513500-0100	
STATE	MISSOURI	ILLINOIS	ILLINOIS	MISSOURI	NORTH DAKOTA	
COUNTY	ST. CHARLES	MADISON	MADISON	FRANKLIN	MERCER	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	070 07	070 07	070 07	095 11	172 10	
PLANT CAPACITY (MW)	1,100.00	55.00	474.00	620.50	172.00	
ANNUAL GENERATION (MWH) [3]	5,661,500	8,400	2,166,100	1,384,000	1,027,300	
PLANT HEAT RATE (BTU/KWH) [3]	10,089	25,445	12,723	9,827	11,687	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	2,404.70		921.20	539.40	853.70	
AVERAGE HEAT CONTENT (BTU/LB)	11,271		11,336	11,179	7,033	
AVERAGE SULFUR CONTENT (%)	2.78		2.68	3.00	.80	
AVERAGE ASH CONTENT (%)	12.85		11.44	10.66	7.70	
AVERAGE MOISTURE CONTENT (%)	8.83		9.45	11.35	34.32	
OIL: CONSUMPTION (1,000 BARRELS)	3.90	14.90		26.30	10.30	
AVERAGE HEAT CONTENT (BTU/GAL)	138,000	138,000		138,000	136,875	
AVERAGE SULFUR CONTENT (%)	.10	.10		.10	.10	
GAS: CONSUMPTION (1,000 MCF)		123.20	6,484.70			
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,050	1,050			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	11	8	1	1	
- NO. OF WET BOTTOM	2					
- NO. WITH FLY ASH REINJECTION					1	
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS	2		8	1		
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	23.00 23.00	23.00	23.00	23.00	23.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					85.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH					81.50	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	98.00		90.00 95.00	99.50		
TESTED, LOW - HIGH	97.90		87.80 95.10			
EST., LOW - HIGH	98.00		97.00	99.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.62		2.21	.49	10.34	
SULFUR DIOXIDE (1,000 TONS)	131.03	.01	48.39	31.73	13.39	
NITROGEN OXIDES (1,000 TONS)	66.14	.06	8.52	4.91	7.71	
STACKS: - TOTAL NO.	2	4	8	1	1	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	600.00	176.00 210.00	237.00	700.00	255.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	308.00		103.10	57.10	58.20	
SOLD (1,000 TONS) [11]	1.00					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					115.50	
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)	1,373.00		1,017.00	2,169.00		
COMBINATION PRECIPITATORS ($1,000) [4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	1,525.00	49.00	418.00	1,886.00	150.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	144.50		178.00	36.30	32.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	189.70		203.00	81.50	32.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	R MISSOURI	R MISSOURI	
AVERAGE RATE OF WITHDRAWAL (CFS)	640.00	2.00	500.00	126.00	219.80	
AVERAGE RATE OF DISCHARGE (CFS)	640.00	2.00	500.00	126.00	219.80	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	5.50	.02	4.30	1.08	1.89 .20	
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	79.00 36.00	86.00 43.00	86.00 43.00	79.00 36.00	58.00 32.00	
AT OUTFALL, SUMMER - WINTER	100.00 58.00	111.00 78.00	111.00 78.00	109.00 66.00	79.00 73.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	92,800.00	144,600.00	144,600.00	47,550.00	28,720.00	
- WINTER	69,850.00	117,400.00	117,400.00	51,800.00	30,680.00	
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O [16]				C		
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP			9.46	3.00	.48	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	334.67		1.25	284.76	.05	
LIME (TONS), COOLING WATER - BOILER MAKEUP	120.00		167.58	550.61	36.50	
ALUM (TONS), COOLING WATER - BOILER MAKEUP					14.60	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP						
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	SW	ST	OT	ST	
RECEIVING WATER BODY	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	O ASH POND		
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	6.40			7.80	9.00 9.90	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	50.00			50.00	.05 24.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING					180.00	
					19,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 1,099.60	2 55.00	6 474.00	1 620.50	1 172.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1967 1968	1924 1929	1942 1950	1970	1966	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	20.90	20.00	20.00	29.70	16.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,040.00	121.00	890.00	419.00	220.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,040.00	121.00	890.00	477.00	220.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	4,259.00	51.00	7,498.00	7,480.00	650.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	87.00	43.00	384.00	45.00	3.00	
COST OF CHEMICAL ADDITIVES ($1,000)						

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	140.00	12.00	113.00	53.00	45.00	
COST OF CHEMICAL ADDITIVES ($1,000)	63.00	1.00	8.00	40.00	26.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	UNIVERSITY OF ILLINOIS	UPPER PENINSULA GEN. CO.	UTAH POWER & LIGHT CO.	UTAH POWER & LIGHT CO.	UTAH POWER & LIGHT CO.		
NAME OF PLANT	ABBOTT	PRESQUE ISLE	CARBON	GAOS8Y	HALE		
UTILITY-PLANT CODE	514500-0100	516000-0100	517000-0500	517000-1000	517000-1500		
STATE	ILLINOIS	MICHIGAN	UTAH	UTAH	UTAH		
COUNTY	CHAMPAIGN	MARQUETTE	CARBON	SALT LAKE	UTAH		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	066 05	126 04	219 14	220 16	220 16		
PLANT CAPACITY (MW)	30.00	174.70	188.60	251.64	59.00		
ANNUAL GENERATION (MWH) [3]	78,800	1,161,400	889,100	1,205,700	47,700		
PLANT HEAT RATE (BTU/KWH) [3]		10,765	10,926	11,643	11,916		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	150.32	487.70	391.28	13.33	5.17		
AVERAGE HEAT CONTENT (BTU/LB)	11,735	12,817	12,408	12,344	12,500		
AVERAGE SULFUR CONTENT (%)	2.46	1.70	.55	.55	.55		
AVERAGE ASH CONTENT (%)	8.75	10.40	4.82	5.54	5.50		
AVERAGE MOISTURE CONTENT (%)	9.65	4.80	8.86	8.12	7.70		
OIL: CONSUMPTION (1,000 BARRELS)			2.84	1,754.04			
AVERAGE HEAT CONTENT (BTU/GAL)			140,000	154,567			
AVERAGE SULFUR CONTENT (%)			.10	.87			
GAS: CONSUMPTION (1,000 MCF)				2,424.96	621.43		
AVERAGE HEAT CONTENT (BTU/CU.FT.)				940	917		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	7	4	2	3	1		
- NO. OF WET BOTTOM		3					
- NO. WITH FLY ASH REINJECTION	3						
- NO. WITH MECHANICAL PRECIPITATORS	7	4	2				
- NO. WITH ELECTROSTATIC PRECIPITATORS							
- NO. WITH COMBINATION PRECIPITATORS [4]				2			
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED I%), LOWEST BOILER - HIGHEST BOILER [5]	30.00 35.00	18.00 23.00	21.00	18.00	27.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	92.00 95.20	85.00	75.00 80.70				
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH	85.00 90.00	75.00	75.00 80.70				
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH							
TESTED, LOW - HIGH				97.00			
EST., LOW - HIGH				86.80 95.40	97.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH				86.80 95.40	97.00		
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	1.90	8.65	3.46	.13	.01		
SULFUR DIOXIDE (1,000 TONS)	7.25	16.25	4.22	5.22	.06		
NITROGEN OXIDES (1,000 TONS)	1.13	6.84	3.53	4.43	.16		
STACKS: - TOTAL NO.	2	4	2	3	1		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	200.00 204.00	147.50 194.00	200.00	250.00	160.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	4.80						
TOTAL ASH: COLLECTED (1,000 TONS) [10]	13.10	50.80	22.85	.94	.35		
SOLD (1,000 TONS) [11]			1.30				
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	103.60	119.00	173.88				
ELECTROSTATIC PRECIPITATORS ($1,000)							
COMBINATION PRECIPITATORS ($1,000) [4]				680.75			
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)							
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	47.90	115.00	119.89	327.10	9.30		
REVENUES FROM SALE OF ASH ($1,000)	16.80	61.00	48.80	24.70	1.40		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)			6.50				
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	16.80	61.00	48.80	24.70	1.39		
TOTAL BYPRODUCT SALES REVENUES ($1,000)			6.50				

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	R OEAD	R PRICE	R JORDAN	R PROVO		
AVERAGE RATE OF WITHDRAWAL (CFS)	.10	171.00	3.00	5.00	60.00		
AVERAGE RATE OF DISCHARGE (CFS)	.05	171.00	1.00		60.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.10	1.47	2.00	5.00			
PEAK LOAD MONTH : SUMMER - WINTER [15]		MAY NOV		AUG DEC	AUG DEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		60.00 46.00					
AT OUTFALL, SUMMER - WINTER		78.00 71.00					
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			190.00		210.00		
- WINTER			15.00		420.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.40	1.65	18.00 .60	29.60 3.00	.05		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	66.71	.15	.50	.30	.05		
LIME (TONS), COOLING WATER - BOILER MAKEUP							
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		8.00	3.00	55.00			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES YES	YES YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	ST	ST	PS	ST		
RECEIVING WATER BODY							
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING							
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		8.00	9.80				
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
- ASH SETTLING		1,350.00	21,700.00				

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		4 174.70			1 15.00		
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)							
COOLING TOWER(S)	7 30.00		2 188.64	3 251.64			
COMBINATIONS [21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1960	1955 1966	1954 1957	1951 1955	1936		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	10.00	20.00 26.00	19.00 20.00	11.00 13.00	7.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90.00	171.00	221.00	494.50	461.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		185.00					

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		1,166.00			46.41		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)	194.00		480.51	1,805.55			

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.70	5.30	54.00	63.19			
COST OF CHEMICAL ADDITIVES ($1,000)	.80	2.30	30.00	72.90			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	18.00	14.60	14.00	53.13	3.11		
COST OF CHEMICAL ADDITIVES ($1,000)	11.20	3.20	2.00	7.77	.21		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	UTAH POWER & LIGHT CO.	UTAH POWER & LIGHT CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	1
2							2
3							3
4	NAME OF PLANT	JORDAN	NAUGHTON	BREMO BLUFF	CHESTERFIELD	MOUNT STORM	4
5	UTILITY-PLANT CODE	517000-1700	517000-2000	525000-0200	525000-0300	525000-0700	5
6	STATE	UTAH	WYOMING	VIRGINIA	VIRGINIA	WEST VIRGINIA	6
7	COUNTY	SALT LAKE	LINCOLN	FLUVANNA	CHESTERFIELD	GRANT	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	220 16	243 16	224 02	225 02	113 02	8
9	PLANT CAPACITY (MW)	25.00	380.20	284.27	1,484.44	1,140.48	9
10	ANNUAL GENERATION (MWH) [3]		2,321,300	1,414,100	6,660,800	6,114,900	10
11	PLANT HEAT RATE (BTU/KWH) [3]		10,262	10,165	10,431	9,770	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)		1,278.14	580.40	1,321.90	2,528.20	12
13	AVERAGE HEAT CONTENT (BTU/LB)		9,317	12,757	12,757	11,674	13
14	AVERAGE SULFUR CONTENT (%)		.55	1.15	1.22	2.51	14
15	AVERAGE ASH CONTENT (%)		5.00	10.60	10.76	18.39	15
16	AVERAGE MOISTURE CONTENT (%)		22.00	4.67	4.64	5.40	16
17	OIL: CONSUMPTION (1,000 BARRELS)	.16	2.45		5,423.10		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	154,500	140,000		148,246		18
19	AVERAGE SULFUR CONTENT (%)	.82	.10		2.41		19
20	GAS: CONSUMPTION (1,000 MCF)	.05					20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	945					21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	2	2	4	6	2	22
23	- NO. OF WET BOTTOM			2			23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS		2	2	1		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				4	2	26
27	- NO. WITH COMBINATION PRECIPITATORS [4]				1		27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	18.00	21.00	18.00 25.00	20.00 25.00	23.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		80.00	85.30 87.20			30
31	TESTED, LOW - HIGH			70.40			31
32	ESTIMATED, LOW - HIGH		80.00	70.00	80.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [5]: DESIGN, LOW - HIGH				90.00 99.50	96.00	33
34	TESTED, LOW - HIGH				90.25 96.40	85.00	34
35	EST., LOW - HIGH				95.00 99.50		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMISSIONS [3]: PARTICULATE MATTER (1,000 TONS)		10.86	16.29	1.82	59.28	39
40	SULFUR DIOXIDE (1,000 TONS)		13.78	13.08	75.46	124.38	40
41	NITROGEN OXIDES (1,000 TONS)		11.51	5.33	23.86	22.75	41
42	STACKS: - TOTAL NO.	1	2	4	6	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [6]	225.00 200.00	225.00	140.00 200.00	200.00 419.00	350.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [6]				.71		44
45	TOTAL ASH: COLLECTED (1,000 TONS) [6]		49.10	46.00	137.50	480.70	45
46	SOLD (1,000 TONS) [1]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [2]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		316.33	356.00	16.00		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)				4,223.00	4,744.00	51
52	COMBINATION PRECIPITATORS ($1,000) [4]				428.00		52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	28.52	443.91	166.00	819.00	695.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		62.30	39.00	108.00	942.30	55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [2]		62.30	44.00	108.00	942.30	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R JORDAN	R HAMS FORK	R JAMES	R JAMES	R STONY	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	60.00	7.00	286.50	1,633.00	1,126.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	60.00		286.50	1,633.00	1,125.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [4]	.52	7.00	2.46	14.64	1.00	64
65	PEAK LOAD MONTH : SUMMER - WINTER [5]	AUG DEC	AUG DEC	AUG JAN	AUG JAN	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			85.00 43.00	88.00 35.00	81.00 44.00	66
67	AT OUTFALL, SUMMER - WINTER			119.00 96.00	110.00 57.00	96.00 68.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	205.00		1,442.50	4,760.00	4.32	68
69	- WINTER	219.00		8,892.00	4,800.00	9.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [6]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.01	8.58 .05		.60	.95	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.02	.08		.25	2.50 7.50	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		16.70				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			66.01 2.24	90.00		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		6.00		63.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [7]	YES	YES YES	YES YES	YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [6]	PS	ST	ST	ST	ST	77
78	RECEIVING WATER BODY			R JAMES	R JAMES	O COOLING POND	78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING		8.40	7.50	7.00	9.50 8.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			250.00	5.00	2,000.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					315.24	81
82	- ASH SETTLING		17,600.00		576.00	3,130.00	82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING [2]: ONCE THROUGH COOLING (FRESH)	1 25.00		4 284.28	6 1,484.44		83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)		2 380.80				86
87	COMBINATION [2]					2 1,140.48	87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1929	1963 1968	1931 1958	1944 1969	1965	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [2]	11.00	24.50	10.00 21.00	12.20 23.50	19.30	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	85.00	296.00	380.60	1,633.56	1,126.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	85.00		387.60	1,633.42		91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	29.67		2,008.00	6,482.00		92
93	COOLING PONDS ($1,000)					6,523.00	93
94	COOLING TOWERS ($1,000)		1,265.70			380.00	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	.34	19.80	52.00	18.00	11.63	95
96	COST OF CHEMICAL ADDITIVES ($1,000)		30.75	5.00	6.22	1.63	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	.20	29.30	19.00	30.00	33.71	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	.10	15.91	3.00	12.10	2.49	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	1
2							2
3							3
4	NAME OF PLANT	PORTSMOUTH	ROSSUM POINT	REEVES AVENUE	12TH STREET	YORKTOWN	4
5	UTILITY-PLANT CODE	525000-0900	525000-1000	525000-1100	525000-1300	525000-1400	5
6	STATE	VIRGINIA	VIRGINIA	VIRGINIA	VIRGINIA	VIRGINIA	6
7	COUNTY	CHESAPEAKE	PRINCE WILLIAM	NORFOLK	RICHMOND	YORK	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	223 02	047 02	223 02	225 02	223 02	8
9	PLANT CAPACITY (MW)	649.64	491.00	100.00	102.50	375.00	9
10	ANNUAL GENERATION (MWH) [3]	3,668,300	3,094,400	171,800	143,600	1,950,100	10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,108	10,462	12,049	14,659	9,712	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)		3.20	84.60	81.70	707.60	12
13	AVERAGE HEAT CONTENT (BTU/LB)		12,999	13,542	13,031	13,152	13
14	AVERAGE SULFUR CONTENT (%)		.91	1.43	2.24	2.11	14
15	AVERAGE ASH CONTENT (%)		8.89	8.62	11.06	7.79	15
16	AVERAGE MOISTURE CONTENT (%)		5.47	4.33	3.86	6.30	16
17	OIL: CONSUMPTION (1,000 BARRELS)	5,933.60	5,180.10				17
18	AVERAGE HEAT CONTENT (BTU/GAL)	148,437	148,358				18
19	AVERAGE SULFUR CONTENT (%)	2.19	2.30				19
20	GAS: CONSUMPTION (1,000 MCF)					394.20	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,162	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	4	4	2	2	2	22
23	- NO. OF WET BOTTOM			2	2		23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	3				1	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1	4	2	2		26
27	- NO. WITH COMBINATION PRECIPITATORS [4]					1	27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	18.00 24.00	20.00 25.00	23.50	32.00	22.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00				85.00	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH	85.50 87.20				80.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	96.00	95.00 96.00	92.00 95.00	90.00	99.40	33
34	TESTED, LOW - HIGH	88.50			90.00	93.75	34
35	EST., LOW - HIGH	92.00	95.00 96.00	90.00	90.00	99.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.11	.04	.47	.59	4.71	39
40	SULFUR DIOXIDE (1,000 TONS)	43.60	39.99	2.37	3.59	29.26	40
41	NITROGEN OXIDES (1,000 TONS)	13.08	11.43	1.27	1.23	6.45	41
42	STACKS: - TOTAL NO.	4	4	2	1	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	175.00 200.00	175.00 176.50	200.00 215.00	150.00	325.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	1.00	.70	12.50	9.40	52.90	45
46	SOLD (1,000 TONS) [11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	479.00				203.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	565.00	1,839.00	312.00	191.00		51
52	COMBINATION PRECIPITATORS ($1,000) [4]					1,579.00	52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	341.00	229.00	19.00	10.00	214.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	132.00	15.00	74.00	38.00	202.50	55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	139.00	28.00	74.00	38.00	214.20	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ELIZABETH	R POTOMAC	R ELIZABETH	O KANAWHA CANAL	R YORK	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	794.70	450.00	100.40	296.40	447.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	794.70	449.20	100.40	296.40	447.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	6.83	3.87 .16	.86	2.55	3.84	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	91.00 45.00	83.00 34.00	88.00 42.00	81.00 40.00	84.00 48.00	66
67	AT OUTFALL, SUMMER - WINTER	106.00 60.00	102.00 53.00	96.50 52.50	89.00 47.00	102.00 73.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	34.00	4,210.00	25.50	4,350.00	1,730.00	68
69	- WINTER	54.00	10,780.00	40.00	4,500.00	1,850.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT [16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.80		4.25	.25	.18	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	404.88		.75	.60	150.18	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	70.00				120.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD RS, ST, SW, OT [18]	ST	ST	PS	SW	ST	77
78	RECEIVING WATER BODY		R ROTOMAC		R JAMES		78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	7.60	7.50			6.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	250.00	200.00				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING	126,144.00				1,268.00	82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		4 491.00		4 102.50		83
84	ONCE THROUGH COOLING (SALINE)	4 550.00		2 100.00		2 375.00	84
85	COOLING POND(S)						85
86	COOLING TOWER(S)						86
87	COMBINATION [21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1962	1948 1962	1941 1950	1919 1940	1957 1958	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	14.00 17.90	17.90 22.00	9.40 11.00	10.00	14.80 14.90	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	794.70	543.30	100.40	296.40	447.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	794.70	543.30	100.40	296.40	490.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	3,448.00	2,771.00	142.00	72.00	3,026.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	77.00	15.00	17.00	5.00	57.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	7.00				13.50	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	132.00	52.00	30.50	16.50	34.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	42.00	1.00	2.50	1.00	10.20	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	WASHINGTON P. POWER SUPPLY SYS.	WEST PENNSYLVANIA POWER CO.	WEST PENNSYLVANIA POWER CO.	WEST PENNSYLVANIA POWER CO.	WEST PENNSYLVANIA POWER CO.		
NAME OF PLANT	HANFORD	ARMSTRONG	MILESBURG	MITCHELL	SPRINGDALE		
UTILITY-PLANT CODE	531500-0100	542000-0100	542000-0300	542000-0400	542000-0500		
STATE	WASHINGTON	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA		
COUNTY	BENTON	ARMSTRONG	CENTRE	WASHINGTON	ALLEGHENY		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	230 17	197 05	195 02	197 05	197 05		
PLANT CAPACITY (MW)	800.00	361.00	46.00	448.70	416.13		
ANNUAL GENERATION (MWH) [3]	3,066,400	2,051,800	309,500	2,772,600	1,825,800		
PLANT HEAT RATE (BTU/KWH) [3]		10,312	12,700	10,540	12,077		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)		911.50	186.20	1,153.60	859.10		
AVERAGE HEAT CONTENT (BTU/LB)		11,600	10,507	12,640	12,819		
AVERAGE SULFUR CONTENT (%)		3.71	2.73	2.89	2.42		
AVERAGE ASH CONTENT (%)		16.89	24.29	11.54	10.12		
AVERAGE MOISTURE CONTENT (%)		4.56	5.24	4.88	5.33		
OIL: CONSUMPTION (1,000 BARRELS)		2.53	1.40		4.86		
AVERAGE HEAT CONTENT (BTU/GAL)		139,000	139,000		139,000		
AVERAGE SULFUR CONTENT (%)		.25	.25		.25		
GAS: CONSUMPTION (1,000 MCF)				42.30			
AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,050			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.		2	2	4	5		
- NO. OF WET BOTTOM					3		
- NO. WITH ELY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS							
- NO. WITH ELECTROSTATIC PRECIPITATORS		2		4	5		
- NO. WITH COMBINATION PRECIPITATORS [4]			2				
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]		20.00	20.00	20.00	20.00 50.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		95.00	90.00	95.00	92.00 98.00		
TESTED, LOW - HIGH		96.30 96.40	85.00 86.00	91.50 94.90	58.00 95.80		
EST., LOW - HIGH							
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)		4.77	5.57	7.04	11.55		
SULFUR DIOXIDE (1,000 TONS)		66.28	9.96	65.34	40.75		
NITROGEN OXIDES (1,000 TONS)		8.21	1.68	10.39	9.12		
STACKS: - TOTAL NO.		2	1	4	5		
- HEIGHT (FEET), LOWEST - HIGHEST [8]		230.00	250.00	193.00 230.00	211.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
TOTAL ASH: COLLECTED (1,000 TONS) [10]		148.20	43.40	133.50	88.50		
SOLD (1,000 TONS) [11]		6.70		49.50	8.00		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)		1,338.00		1,306.00	1,604.00		
COMBINATION PRECIPITATORS ($1,000) [4]			438.00				
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)		184.00	165.00	246.00	100.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		102.00	16.20	178.80	145.80		
REVENUES FROM SALE OF ASH ($1,000)		6.00		22.90	6.00		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		102.00	16.70	186.30	150.80		
TOTAL BYPRODUCT SALES REVENUES ($1,000)		6.00		22.90	6.00		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R COLUMBIA	R ALLEGHENY	C SPRING	R MONONGAHELA	R ALLEGHENY		
AVERAGE RATE OF WITHDRAWAL (CFS)	836.00	300.00	75.00	700.00	650.00		
AVERAGE RATE OF DISCHARGE (CFS)	836.00	299.95	74.09	695.85	649.70		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	7.19	2.58 .05	.65 .01	6.02 .15	5.59 .30		
PEAK LOAD MONTH : SUMMER - WINTER [15]	SEP NOV	JUL DEC	JUL DEC	JUL DEC	JUL DEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	63.00 52.00	75.00 36.00	63.00 43.00	80.00 38.00	77.00 34.00		
AT OUTFALL, SUMMER - WINTER	96.00 87.00	105.00 66.00	80.00 60.00	99.00 57.00	91.00 48.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	74,400.00	7,640.00	118.00	5,870.00	9,080.00		
- WINTER	75,700.00	18,800.00	140.00	11,200.00	23,000.00		
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O [16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		1.30	.08	.40	.68		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		35.00	.05	34.57	1.05		
LIME (TONS), COOLING WATER - BOILER MAKEUP		10.00		5.05	34.00		
ALUM (TONS), COOLING WATER - BOILER MAKEUP		10.00		23.20	16.20		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		16.00		1.83	56.00 6.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	ST	ST		
RECEIVING WATER BODY	O TILE FIELD				O FRENCH DRAIN		
POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING			7.30				
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
- ASH SETTLING			35,131.24		61,350.10		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 860.00	2 361.00	2 40.00	3 474.00	8 392.00		
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)							
COOLING TOWER(S)							
COMBINATIONS [21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1965	1958 1959	1950	1948 1963	1920 1954		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	32.00	29.00 30.00	17.00	18.00 21.00	11.00 23.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,250.00	275.40	68.00	648.00	741.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,250.00	277.30	68.00	656.00	742.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	3,056.00	1,316.00	172.00	1,193.00	2,263.00		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	35.20	75.20	13.00	94.10	171.00		
COST OF CHEMICAL ADDITIVES ($1,000)		1.60		3.30	5.50		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	74.11	45.30	12.00	52.70	76.30		
COST OF CHEMICAL ADDITIVES ($1,000)	1.36	6.10	.70	11.30	8.60		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	WEST PENNSYLVANIA POWER CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.		
NAME OF PLANT	HATFIELD	ABILENE	CONCHO	LAKE PAULINE	OAK CREEK		
UTILITY-PLANT CODE	542000-0600	543000-0100	543000-0200	543000-0400	543000-0600		
STATE	PENNSYLVANIA	TEXAS	TEXAS	TEXAS	TEXAS		
COUNTY	GREENE	TAYLOR	TOM GREEN	HARDEMAN	COKE		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	197 05	210 12	218 12	210 11	218 12		
PLANT CAPACITY (MW)	1,152.00	26.25	52.50	44.50	81.60		
ANNUAL GENERATION (MWH) [3]	3,721,600	3,800	18,300	141,700	495,100		
PLANT HEAT RATE (BTU/KWH) [3]	9,650	17,768	14,772	10,494	10,039		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,413.30						
AVERAGE HEAT CONTENT (BTU/LB)	12,626						
AVERAGE SULFUR CONTENT (%)	3.13						
AVERAGE ASH CONTENT (%)	13.13						
AVERAGE MOISTURE CONTENT (%)	3.44						
OIL: CONSUMPTION (1,000 BARRELS)	39.79	.04	.07	.04	.21		
AVERAGE HEAT CONTENT (BTU/GAL)	139,000	148,447	130,720	148,784	138,993		
AVERAGE SULFUR CONTENT (%)	.25	.58	.51	.59	.10		
GAS: CONSUMPTION (1,000 MCF)		61.90	255.80	1,727.00	4,442.00		
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,089	1,056	1,103	1,118		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	3	4	4	1		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS							
- NO. WITH ELECTROSTATIC PRECIPITATORS	2						
- NO. WITH COMBINATION PRECIPITATORS [4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	30.00	15.00	8.00	8.00	11.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	99.00						
TESTED, LOW - HIGH							
EST., LOW - HIGH	99.00						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	1.58						
SULFUR OIOXIOE (1,000 TONS)	86.74						
NITROGEN OXIOES (1,000 TONS)	12.81	.01	.05	.34	.87		
STACKS: - TOTAL NO.	2	3	4	2	1		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	750.00	100.00	105.00	109.00	112.00	113.50	130.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
TOTAL ASH: COLLECTED (1,000 TONS) [10]	185.10						
SOLD (1,000 TONS) [11]	4.80						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF AC1O COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF AC1O SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)	3,359.00						
COMBINATION PRECIPITATORS ($1,000) [4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	2,203.00				14.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	165.30						
REVENUES FROM SALE OF ASH ($1,000)	.26						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	165.30						
TOTAL BYPRODUCT SALES REVENUES ($1,000)	.26						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MONONGAHELA	L PHANTOM	M	L PAULINE	L OAK CREEK		
AVERAGE RATE OF WITHDRAWAL (CFS)	1,115.00	.19	.16	107.75	72.00		
AVERAGE RATE OF DISCHARGE (CFS)	1,114.66	.06	.04	107.48	72.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	9.59 .34	.13	.12	.27	.74		
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 32.00			87.00 56.00	84.00 57.00		
AT OUTFALL, SUMMER - WINTER	95.00 47.00	87.00 71.00	78.00 70.00	95.00 60.00	101.00 78.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	4,790.00						
- WINTER	10,100.00						
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]	H						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.39 .01	.10	.80	.28		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	665.83 221.94		.05	.65			
LIME (TONS), COOLING WATER - BOILER MAKEUP			18.50				
ALUM (TONS), COOLING WATER - BOILER MAKEUP	5.00		.50				
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.20	.30	.23	9.00	2.25		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES	YES YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	ST	PS	ST	ST		
RECEIVING WATER BODY	R MONONGAHELA						
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING							
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
- ASH SETTLING	374,200.00						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 1,152.00						
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)				2 44.50	1 81.60		
COOLING TOWER(S)		2 26.25	2 52.50				
COMBINATIONS [21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1969 1970	1948 1949	1947 1953	1928 1951	1962		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	15.00	11.00	15.00 16.20	7.50 8.50	19.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,208.00	64.10	105.00	179.70	90.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,112.00						

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	5,624.00						
COOLING PONDS ($1,000)				192.00			
COOLING TOWERS ($1,000)		137.00	188.00				

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	106.00						
COST OF CHEMICAL ADDITIVES ($1,000)	45.00	.25	.89	1.53	.35		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	28.00						
COST OF CHEMICAL ADDITIVES ($1,000)	143.00	.02	.23	6.75	.368		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	WEST TEXAS UTILITIES CO.		WEST TEXAS UTILITIES CO.		WEST TEXAS UTILITIES CO.		WESTERN FARMERS ELECTRIC COOP.		WESTERN FARMERS ELECTRIC COOP.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	PAINT CREEK		R I O PECOS		SAN ANGELO		ANADARKO		MOORELAND		4
5	UTILITY-PLANT CODE	5	543000-0700		543000-0900		543000-1000		544000-0100		544000-0300		5
6	STATE	6	TEXAS		TEXAS		TEXAS		OKLAHOMA		OKLAHOMA		6
7	COUNTY	7	HASKELL		CROCKETT		TOM GREEN		CADDO		WOODWARD		7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	210	12	218	13	218	12	189	11	187	11	8
9	PLANT CAPACITY (MW)	9		126.40		136.50		100.85		84.50		191.00	9
10	ANNUAL GENERATION (MWH)[3]	10		424,600		855,200		825,100		227,200		944,400	10
11	PLANT HEAT RATE (BTU/KWH)[3]	11		11,554		10,494		9,576		10,700		10,277	11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12											12
13	AVERAGE HEAT CONTENT (BTU/LB)	13											13
14	AVERAGE SULFUR CONTENT (%)	14											14
15	AVERAGE ASH CONTENT (%)	15											15
16	AVERAGE MOISTURE CONTENT (%)	16											16
17	OIL: CONSUMPTION (1,000 BARRELS)	17		.28		1.28		.32		20.23			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		137,934		139,424		136,161		146,676			18
19	AVERAGE SULFUR CONTENT (%)	19		.44		.09		.35		1.00			19
20	GAS: CONSUMPTION (1,000 MCF)	20		4,268.00		8,789.00		4,484.20		2,317.76		9,359.25	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,149		1,020		1,056		1,049		1,037	21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22		3		2		1		3		2	22
23	- NO. OF WET BOTTOM	23											23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25											25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26											26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27											27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29	5.00	8.00		8.00			7.00	20.00	9.00	10.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30											30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32											32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33											33
34	TESTED, LOW - HIGH	34											34
35	EST., LOW - HIGH	35											35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39											39
40	SULFUR DIOXIDE (1,000 TONS)	40								.07			40
41	NITROGEN OXIDES (1,000 TONS)	41		.83		1.72		.88		.50		1.83	41
42	STACKS: - TOTAL NO.	42		3		2		1		3		2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43	100.00	127.00	110.00	119.00		113.00	101.00	111.50	125.00	153.50	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45											45
46	SOLD (1,000 TONS)[10]	46											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50											50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51											51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52											52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54		29.00		22.00		6.70					54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55											55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59											59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60											60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	L STAMFORD		W		L NASWORTHY		R WASHITA		W		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		109.20		3.27		145.00		.74		2.52	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63		109.20		1.31		145.00		.11		.38	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64		.71		2.00		.89		.63		2.14	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	65	AUG	DEC	AUG	DEC	AUG	DEC	AUG	JAN	AUG	JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	85.00	56.00			87.00	61.00					66
67	AT OUTFALL, SUMMER - WINTER	67	102.00	77.00	95.00	85.00	101.00	76.00	91.00	83.00	91.00	86.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68								.18		.87	68
69	- WINTER	69								.22		.23	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, D, O[16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		.90	13.00	1.00		.10	7.50	.25		.20	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		.50		.25				.05		.20	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73		9.38	964.25								73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		1.50									74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	2.00		2.00		8.00		3.30		8.23		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	76		YES	YES	YES		YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD (PS, ST, SW, OT)[18]	77	ST		ST		ST		PS		ST		77
78	RECEIVING WATER BODY	78											78
79	POND DISCHARGE[19]: PH. BOILER BLOWDOWN - ASH SETTLING	79											79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80											80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81											81
82	- ASH SETTLING	82											82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	83											83
84	ONCE THROUGH COOLING (SALINE)	84											84
85	COOLING POND(S)	85	3	126.40			1	100.85					85
86	COOLING TOWER(S)	86			2	136.50			3	84.50	2	191.00	86
87	COMBINATION[21]	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1953	1959	1959	1969		1965	1953	1959	1964	1968	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	89	17.00	20.50	18.40	22.10		12.75	12.00	16.00	15.00	17.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		182.70		164.00		174.00		155.80		253.96	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91											91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92											92
93	COOLING PONDS ($1,000)	93											93
94	COOLING TOWERS ($1,000)	94				242.00				245.78		401.40	94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95											95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		.34		33.22		1.39		13.60		30.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97											97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		1.61		1.90		1.57		.77		3.20	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	WESTERN MASSACHUSETTS ELECTRIC CO.	WESTERN MASSACHUSETTS ELECTRIC CO.	WINNETKA, VILLAGE OF.	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.		1
2		STATE STREET	WEST SPRINGFIELD	WINNETKA	COMMERCE	LAKESIDE		2
3		545500-0900	545500-1100	551500-0100	553000-0100	553000-0300		3
4	NAME OF PLANT	MASSACHUSETTS	MASSACHUSETTS	ILLINOIS	WISCONSIN	WISCONSIN		4
5	UTILITY-PLANT CODE	HAMPDEN	HAMPDEN	COOK	MILWAUKEE	MILWAUKEE		5
6	STATE	042 01	042 01	067 04	239 04	239 04		6
7	COUNTY	44.00	209.64	25.50	35.00	310.80		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	12,800	1,234,500	68,800	167,100	830,600		8
9	PLANT CAPACITY (MW)		11,071	17,762	13,639	15,720		9
10	ANNUAL GENERATION (MWH) [3]							10
11	PLANT HEAT RATE (BTU/KWH) [3]							11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	22.00	346.62	14.33				12
13	AVERAGE HEAT CONTENT (BTU/LB)	13,250	10,842	12,000				13
14	AVERAGE SULFUR CONTENT (%)	1.29	3.01	1.16				14
15	AVERAGE ASH CONTENT (%)	10.04	23.12	6.57				15
16	AVERAGE MOISTURE CONTENT (%)	4.05	6.20	10.00				16
17	OIL: CONSUMPTION (1,000 BARRELS)	24.80	985.98		103.68	917.60		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	149,000	148,727		135,583	146,237		18
19	AVERAGE SULFUR CONTENT (%)	2.40	2.44		.43	1.53		19
20	GAS: CONSUMPTION (1,000 MCF)			680.06	1,633.57	7,265.10		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,040	1,033	1,031		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	16	3	5	1	20		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION	12		1				24
25	- NO. WITH MECHANICAL PRECIPITATORS	12		1				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		3					26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	30.00	20.00 23.00	30.00 31.00	10.00	10.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			91.80				30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH			87.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		95.00 97.50					33
34	TESTED, LOW - HIGH		96.40 98.80					34
35	EST., LOW - HIGH		65.00 98.80					35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	1.48	2.58	.30	.02	.15		39
40	SULFUR DIOXIDE (1,000 TONS)	.77	28.52	.33	.15	4.71		40
41	NITROGEN OXIDES (1,000 TONS)	.22	5.29	.24	.55	3.44		41
42	STACKS: - TOTAL NO.	8	3	1	1	4		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	42.00 210.00	180.00 223.00	251.50	300.70	231.00 253.23		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]		.17					44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	2.30	77.64	.94				45
46	SOLD (1,000 TONS) [11]		.85					46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	144.00		9.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		634.00					51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	72.00	634.00	111.00	120.00	231.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	2.50	17.55	3.90				55
56	REVENUES FROM SALE OF ASH ($1,000)		1.06					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	2.50	17.55	3.90				59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		1.06					60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CONNECTICUT	R CONNECTICUT	L MICHIGAN	R MILWAUKEE	L MICHIGAN		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	10.00	307.00	31.10	48.90	458.50		62
63	AVERAGE RATE OF DISCHARGE (CFS)	10.00	307.00	31.10	48.90	458.50		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.09	2.64	.27	.42	3.94		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]		SEP DEC		JUN JAN	JUL DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	76.00 34.00	74.00 47.00		77.00 40.00	63.00 39.00		66
67	AT OUTFALL, SUMMER - WINTER	104.00 60.00	95.00 70.00		84.00 49.00	73.00 55.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	11,035.00	3,870.00		617.00			68
69	- WINTER	9,100.00	9,100.00		112.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]							70
71	CHEMICAL ADDITIVES: RHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.00	5.23 4.65		1.20	4.25		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		8.06 2.64	.26	176.00			72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP							73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					.15		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		5.12		3.00	2.63		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	PS	PS	RS	PS		77
78	RECEIVING WATER BODY							78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING		7.20	8.20	6.50	10.10		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			1,200.00				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			96.90	242.00	740.00		81
82	- ASH SETTLING		445.50					82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 44.00	3 209.64	4 25.50	1 35.00	8 280.00		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING PONDS)							85
86	COOLING TOWERS)							86
87	COMBINATION [21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1918 1921	1949 1957	1937 1961	1941	1920 1930		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]		20.00 21.85	12.00	10.50	7.50 10.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		241.70	80.74	85.00	1,070.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	90.00	307.00	80.74	85.00	1,070.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		1,188.00	254.00	219.00	557.00		92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)							94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	4.00	43.00	14.65	15.30	116.10		95
96	COST OF CHEMICAL ADDITIVES ($1,000)		3.30		1.80	2.20		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.00	22.00	5.17	59.80	13.40		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.50	6.10	.79	16.10	5.50		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.		
NAME OF PLANT	NORTH OAK CREEK	PORT WASHINGTON	SOUTH OAK CREEK	VALLEY	POINT BEACH		
UTILITY-PLANT CODE	553000-0400	553000-0500	553000-0600	553000-0700	553000-0800		
STATE	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN		
COUNTY	MILWAUKEE	OZAUKEE	MILWAUKEE	MILWAUKEE	MANITOWOC		
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	239 04	239 04	239 04	239 04	237 04		
PLANT CAPACITY (MW)	500.00	400.00	1,170.00	280.00	524.00		
ANNUAL GENERATION (MWH)[3]	2,405,200	2,125,100	5,667,700	1,479,000	33.400		
PLANT HEAT RATE (BTU/KWH)[3]	10,146	11,034	9,324	11,778			

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,062.90	1,010.80	2,285.60	757.18			
AVERAGE HEAT CONTENT (BTU/LB)	11,425	11,598	11,436	11,428			
AVERAGE SULFUR CONTENT (%)	2.36	3.04	2.36	3.18			
AVERAGE ASH CONTENT (%)	11.54	13.45	11.77	13.53			
AVERAGE MOISTURE CONTENT (%)	10.14	7.53	10.07	8.57			
OIL: CONSUMPTION (1,000 BARRELS)	1.85		73.41				
AVERAGE HEAT CONTENT (BTU/GAL)	135,381		135,344				
AVERAGE SULFUR CONTENT (%)	.50		.49				
GAS: CONSUMPTION (1,000 MCF)				119.62			
AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,034			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	5	4	4			
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS							
- NO. WITH ELECTROSTATIC PRECIPITATORS	4	5	4	4			
- NO. WITH COMBINATION PRECIPITATORS[4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	28.00 30.00	20.00 21.00	20.00			
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00 99.50	99.10 99.20	92.00 99.00	99.00			
TESTED, LOW - HIGH	98.45 99.50	98.50 99.70	70.00 99.40	99.20 99.70			
EST., LOW - HIGH	90.00 93.00	96.00 99.00	45.00 92.00	98.00			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	6.99	1.41	46.57	1.74			
SULFUR DIOXIDE (1,000 TONS)	49.16	60.22	105.84	47.19			
NITROGEN OXIDES (1,000 TONS)	7.98	7.58	19.41	6.84			
STACKS: - TOTAL NO.	2	2	2	2			
- HEIGHT (FEET), LOWEST - HIGHEST[8]	250.25 350.25	505.17 505.50	454.29 556.67	400.00			
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							
TOTAL ASH: COLLECTED (1,000 TONS)[10]	107.60	140.30	238.70	102.40			
SOLD (1,000 TONS)[11]			19.50				
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)	2,713.00	2,517.00	2,794.00	1,229.00			
COMBINATION PRECIPITATORS ($1,000)[4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	246.00	763.00	971.00	706.00			
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	430.80	310.60	431.10	518.80			
REVENUES FROM SALE OF ASH ($1,000)			4.10				
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	430.80	310.60	431.10	518.80			
TOTAL BYPRODUCT SALES REVENUES ($1,000)			4.10				

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L MICHIGAN	L MICHIGAN	L MICHIGAN	O N. MENOM. CNL	L MICHIGAN		
AVERAGE RATE OF WITHDRAWAL (CFS)	773.50	780.60	1,479.90	165.40	480.00		
AVERAGE RATE OF DISCHARGE (CFS)	773.50	780.60	1,479.90	165.40	480.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	6.65	6.71	12.73	1.42	4.13		
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUN JAN	JUL DEC	JUL DEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	63.00 42.00	65.00 47.00	63.00 42.00	82.00 55.00	43.00		
AT OUTFALL, SUMMER - WINTER	70.00 53.00	72.00 61.00	71.00 54.00	105.00 73.00	60.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				173.00			
- WINTER				174.50			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CH[16]				O			
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	6.35	.50	13.65	3.55			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	77.10	52.00	165.90	1,166.00	30.85		
LIME (TONS), COOLING WATER - BOILER MAKEUP					2.60		
ALUM (TONS), COOLING WATER - BOILER MAKEUP					.05		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	20.73	1.40	39.98	84.53			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	PS	OT	PS			
RECEIVING WATER BODY					L MICHIGAN		
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	6.90	6.80 7.50	6.90	7.30	7.20		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	200.00	40.00 15.00	200.00		.70		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	293.40	128.00	631.60	1,700.00	237.00		
- ASH SETTLING		127,144.83					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[19]: ONCE THROUGH COOLING (FRESH)	4 500.00	5 400.00	4 1,170.00	2 280.00	1 524.00		
ONCE THROUGH COOLING (SALINE)							
COOLING PONDS(S)							
COOLING TOWER(S)							
COMBINATIONS[21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1957	1935 1950	1959 1967	1968 1969	1970		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	9.00	7.50	11.00 16.00	31.80	19.30		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	980.00	1,225.00	1,760.00	250.00	793.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	980.00	1,225.00	1,760.00	250.00	793.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,814.00	697.00	1,640.00	857.00	5,710.00		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	95.80	115.50	184.80	37.50	6.80		
COST OF CHEMICAL ADDITIVES ($1,000)	10.50	1.20	20.10	42.50			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.10	13.90	32.30	209.90	2.00		
COST OF CHEMICAL ADDITIVES ($1,000)	15.80	8.40	34.00	96.70	4.50		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1970

1	NAME OF UTILITY	WISCONSIN POWER & LIGHT CO.	WISCONSIN POWER & LIGHT CO.	WISCONSIN POWER & LIGHT CO.	WISCONSIN POWER & LIGHT CO.	WISCONSIN PUBLIC SERVICE CORP.	1
2							2
3							3
4	NAME OF PLANT	BLACKHAWK	EDGEWATER	NELSON DEWEY	ROCK RIVER	PULLIAM	4
5	UTILITY-PLANT CODE	554000-0200	554000-0300	554000-060C	554000-0900	554500-1500	5
6	STATE	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	6
7	COUNTY	ROCK	SHEBOYGAN	GRANT	ROCK	BROWN	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	073 07	237 04	068 07	073 07	237 04	8
9	PLANT CAPACITY (MW)	50.00	477.00	227.20	150.00	392.50	9
10	ANNUAL GENERATION (MWH) 3/	272,400	507,400	1,275,000	926,500	2,058,800	10
11	PLANT HEAT RATE (BTU/KWH) 3/	12,259	11,884	9,716	10,337	11,057	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	10.80	987.10	560.30	431.30	987.80		12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,370	10,652	11,052	11,093	11,478		13
14	AVERAGE SULFUR CONTENT (%)	2.89	2.40	3.30	2.89	2.70		14
15	AVERAGE ASH CONTENT (%)	6.85	9.59	9.52	8.91	13.31		15
16	AVERAGE MOISTURE CONTENT (%)	15.22	15.67	12.49	13.67	7.52		16
17	OIL: CONSUMPTION (1,000 BARRELS)		3.30	.27	1.00	14.45		17
18	AVERAGE HEAT CONTENT (BTU/GAL)		147,400	141,040	141,040	139,000		18
19	AVERAGE SULFUR CONTENT (%)		.33	.33	.33	.30		19
20	GAS: CONSUMPTION (1,000 MCF)	3,031.90						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,020						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	4	2	2	8		22
23	- NO. OF WET BOTTOM		2	2	2	8		23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS	2						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		3			6		26
27	- NO. WITH COMBINATION PRECIPITATORS 4/							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BUILER 5/	10.00	12.00	15.00	15.00	18.00 28.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	88.00						30
31	TESTED, LOW - HIGH	88.00						31
32	ESTIMATED, LOW - HIGH	80.00						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		90.00 99.00			90.00 93.00		33
34	TESTED, LOW - HIGH		92.40 95.30			88.00 95.60		34
35	EST., LOW - HIGH		90.00 99.00			86.00 95.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.13	2.74	5.33	3.84	12.03		39
40	SULFUR DIOXIDE (1,000 TONS)	.61	46.44	36.24	24.43	53.09		40
41	NITROGEN OXIDES (1,000 TONS)	.69	25.36	15.41	11.86	15.08		41
42	STACKS: - TOTAL NO.	1	3	1	2	7		42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	226.00	200.00 360.00	352.00	250.00	183.00 237.50		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/							44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	.68	78.00	37.30	26.70	125.30		45
46	SOLD (1,000 TONS) 11/					7.30		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	68.00						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		1,106.00			1,551.00		51
52	COMBINATION PRECIPITATORS ($1,000) 4/							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	50.00	474.00	185.00	300.00	321.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	7.00	80.00	37.00	26.70	86.90		55
56	REVENUES FROM SALE OF ASH ($1,000)					3.75		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	7.00	80.00	37.00	26.70	86.90		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					3.75		60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ROCK	L MICHIGAN	R MISSISSIPPI	R ROCK	R FOX		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	81.00	290.00	189.00	174.00	683.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	81.00	290.00	189.00	174.00	683.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.70	2.49	1.63	1.50	5.87		64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL OEC	JUL OEC	JUL OEC	JUL OEC	JUL OEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00 46.00	59.00 40.00	79.00 35.00	73.00 42.00	78.00 39.00		66
67	AT OUTFALL, SUMMER - WINTER	98.00 70.00	84.00 69.00	100.00 59.00	89.00 61.00	89.00 55.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	503.00		40,000.00	503.00			68
69	- WINTER	1,100.00		35,000.00	1,100.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.75	1.46	.04	.10	2.00		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.53	.24	.04	.02	32.00		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP							73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		6.00					74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.70	1.33		1.50	216.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	PS	ST	ST	PS		77
78	RECEIVING WATER BODY							78
79	POND DISCHARGE: 18/ PH, BOILER BLOWDOWN - ASH SETTLING	10.20	8.50 7.60	8.50 7.60	10.30 7.60			79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	10.00		8.00 2.00	3.00 3.00			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	120.00	430.00	75.00	60.00			81
82	- ASH SETTLING		200,000.00	60,000.00	65,000.00			82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	2 57.50	4 490.00	2 236.00	2 159.38	8 392.50		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING PONDS							85
86	COOLING TOWERS							86
87	COMBINATIONS 21/							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1946 1949	1931 1969	1960 1962	1954 1955	1926 1964		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	12.00	11.00 15.00	15.00	12.00	10.00 12.40		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	152.00	526.00	223.20	214.00	837.90		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	156.00	526.00	222.80	214.00	838.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	56.00	300.00	300.00	250.00	2,376.00		92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)							94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	5.60	90.90	18.40	8.70	42.40		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	.40	.10		.80	17.40		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	6.20	12.00	10.90	16.70	30.30		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.80	21.60	.20	3.30	15.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	WISCONSIN PUBLIC SERVICE CORP.	WYANDOTTE DEPT. OF MUNC. SER.	YANKEE ATOMIC ELECTRIC CO.			1
2		2						2
3		3						3
4	NAME OF PLANT	4	WESTON	WYANDOTTE	ROWE			4
5	UTILITY-PLANT CODE	5	554500-2C00	561000-0100	562500-0100			5
6	STATE	6	WISCONSIN	MICHIGAN	MASSACHUSETTS			6
7	COUNTY	7	MARATHON	WAYNE	FRANKLIN			7
8	AIR QUALITY CONTROL REGION NO. [2] - WATER RESOURCE REGION NO. [2]	8	238 07	123 04	042 01			8
9	PLANT CAPACITY (MW)	9	135.00	42.00	185.00			9
10	ANNUAL GENERATION (MWH) [3]	10	910,100	134,200	1,209,100			10
11	PLANT HEAT RATE (BTU/KWH) [3]	11	11,023	10,099				11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	210.50	56.60				12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,547	13,000				13
14	AVERAGE SULFUR CONTENT (%)	14	3.35	1.34				14
15	AVERAGE ASH CONTENT (%)	15	11.63	9.37				15
16	AVERAGE MOISTURE CONTENT (%)	16	8.98	4.88				16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	2.96					17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	139,000					18
19	AVERAGE SULFUR CONTENT (%)	19	.30					19
20	GAS: CONSUMPTION (1,000 MCF)	20	4,993.02					20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,034					21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	2	5				22
23	- NO. OF WET BOTTOM	23	2					23
24	- NO. WITH FLY ASH REINJECTION	24		3				24
25	- NO. WITH MECHANICAL PRECIPITATORS	25		5				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	23.00	35.00 60.00				29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30		50.00 95.00				30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32		80.00 95.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33						33
34	TESTED, LOW - HIGH	34						34
35	EST., LOW - HIGH	35						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39	16.06	.88				39
40	SULFUR DIOXIDE (1,000 TONS)	40	13.96	1.43				40
41	NITROGEN OXIDES (1,000 TONS)	41	4.17	.41				41
42	STACKS: - TOTAL NO.	42	2	5				42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	189.50	120.00				43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45	2.00	4.75				45
46	SOLD (1,000 TONS) [11]	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50		80.70				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51						51
52	COMBINATION PRECIPITATORS ($1,000) [4]	52						52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54	64.00	101.00				54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	5.00	10.00				55
56	REVENUES FROM SALE OF ASH ($1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59	5.00	10.00				59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60						60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R WISCONSIN	R DETROIT	R DEERFIELD			61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	145.00	69.00	310.00			62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	145.00	69.00	310.00			63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	1.25	.59	2.67			64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	JUL DEC	AUG DEC				65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	76.00 36.00	78.00 39.00				66
67	AT OUTFALL, SUMMER - WINTER	67	96.00 64.00	84.00 42.00				67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	2,144.00	190,000.00				68
69	- WINTER	69	3,789.00	190,000.00				69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D [16]	70		C	C			70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	.36	.02				71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	20.00	.02	.46			72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74			1.38			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	140.00	3.15				75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES	YES	YES YES			76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77		PS				77
78	RECEIVING WATER BODY	78						78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	79						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81	835.00					81
82	- ASH SETTLING	82	10,645.00					82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83	2 135.00	4 42.00	1 185.00			83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING POND(S)	85						85
86	COOLING TOWER(S)	86						86
87	COMBINATION [21]	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1954 1960	1933 1958	1960			88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	17.70 19.70	17.00	18.00			89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	182.50	126.00	310.00			90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	182.50	126.00	310.00			91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	623.00					92
93	COOLING PONDS ($1,000)	93						93
94	COOLING TOWERS ($1,000)	94						94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95		10.00				95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	9.30	.50	4.95			96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		10.00				97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	6.40	1.10	.74			98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

FOOTNOTES TO TABLE 10

1/ Tables 1B, 2B, 4B and 5B display Form 67 data as summarized by AQCR. See Appendix 3 for a map of these regions/numbers.

2/ Tables 6B, 7B, 8B and 9B display Form 67 data as summarized by WRR. See Appendix 4 for a map of these regions/numbers.

3/ Source: FPC Form #1

4/ Precipitator systems which include a mechanical and an electrostatic precipitator in series.

5/ First number is for the boiler with the least excess air; Second number is for the boiler with the highest excess air.

6/ First number is for precipitator with lowest efficiency; Second number is for precipitator with highest efficiency.

7/ Line 39-41 figures computed by FPC. Method of computation described in Section I.

8/ Height of lowest and highest stack in the plant.

9/ May include a variety of fuel oil additives designed to reduce boiler corrosion and to improve combustion.

10/ Tonnage includes bottom ash and flyash as reported in Form 67. The sum of lines 45 and 39 does not necessarily equal the total ash content. (See discussion in Section I above.)

11/ Includes bottom ash and flyash.

12/ Figures computed by FPC. Method of computation described in Section I above.

13/ May include the "incremental cost" of premium (low-sulfur) fuels.

14/ An approximation of assumed average conditions obtained by use of the formula that consumption = (.0086) x (withdrawal), which may be derived as follows:

Average heat rate (1969)	10,447 Btu/kwh
In-plant and stack losses (15%)	1,567 Btu/kwh
Heat equivalent of generation	3,413 Btu/kwh
Heat given up in condenser	5,467 Btu/kwh
Heat dissipated by evaporation (50%)	2,734 Btu/kwh
Heat of evaporation	1,050 Btu/lb

Water evaporated (consumed)	2.6 lb/kwh
Temperature rise across the condenser	18°F.
Flow through condenser (withdrawal)	304 lb/kwh
Ratio of consumption to withdrawal	.0086

15/ System peak power load month.

16/ C - continuously; H - hourly; D - daily; O - other.

17/ Major examples are: H_2SO_4, Na_2SO_3, Na_2SO_4, NaCl, NH_3 and Morpholine.

18/ PS - Public Sewer; ST - Septic tank; SW - surface water body, such as river. lake, ocean; OT - other.

19/ Refers to the discharges from the Boiler Blowdown pond and the Ash Settling pond.

20/ "Unit" refers to a turbine-generator set; capacity refers to maximum nameplate generator rating. There may be a difference in the generating capacity shown on line 9 of Table 10 and the sum of the capacities shown in lines 83 through 87. Minor differences usually resulted when capacities reported in lines 83 through 87 were not the maximum nameplate ratings. Major differences occured at plants with non-condensing units.

21/ Those units with a capability of using more than one cooling system.

22/ First number is for condenser with smallest temperature rise; second number is for condenser with highest temperature rise.

WATER BODY CODES for line No. 61 of the general table containing individual plant data (Table 10):

R-river L-lake B-bay C-creek W-well M-muncipal O-other

APPENDIX 1

ALPHABETICAL INDEX OF PLANTS

PLANT NAME	UTILITY NAME	PAGE
ABBOTT	UNIVERSITY OF ILLINOIS	156
ABILENE	THE KANSAS POWER & LIGHT CO.	151
ABILENE	WEST TEXAS UTILITIES CO.	160
ACME	THE TOLEDO EDISON CO.	152
AGUA FRIA 2	SALT R. PROJ. AGR. IMPR. PWR. DIST.	128
ALAMITOS	SOUTHERN CALIFORNIA EDISON CO.	132
ALBANY	NIAGARA-MOHAWK POWER CORP.	101
ALBRIGHT	MONONGAHELA (ALLEGHENY) POWER CO.	96
ALEXANDRIA # 2	ALEXANDRIA ELEC. LIGHT & WATER WORKS	30
ALLEN	DUKE POWER CO.	59
ALLEN	TENNESSEE VALLEY AUTHORITY	140
ALMA	DAIRYLAND POWER COOPERATIVE	56
ANADARKO	WESTERN FARMERS ELECTRIC COOP.	161
ARAPHAHOE	PUBLIC SERVICE CO. OF COLORADO	125
ARBUCKLE	OKLAHOMA GAS & ELECTRIC CO.	108
ARKWRIGHT	GEORGIA POWER CO.	68
ARMSTRONG	WEST PENNSYLVANIA POWER CO.	159
ARSENAL HILL	SOUTHWESTERN ELECTRIC POWER CO.	137
ARTHUR KILL	CONSOLIDATED EDISON CO. OF NY	52
ASBURY	EMPIRE DIST. ELECTRIC CO.	64
ASHEVILLE	CAROLINA POWER & LIGHT CO.	38
ASHLEY	UNION ELECTRIC CO.	154
ASHTABULA	CLEVELAND ELEC. ILLUM. CO	46
ASTORIA	CONSOLIDATED EDISON CO. OF NY	52
ATKINSON	GEORGIA POWER CO.	68
AURORA	MINNESOTA POWER & LIGHT CO.	93
AVON	PACIFIC GAS & ELECTRIC CO.	110
AVON LAKE	CLEVELAND ELEC. ILLUM. CO	46
AVON PARK	FLORIDA POWER CORP.	64
BAILEY	ARKANSAS ELECTRIC COOP CORP.	32
BAILLY	NORTHERN INDIANA PUBLIC SERVICE CO.	102
BALDWIN	ILLINOIS POWER CO.	77
BARBADOES	PHILADELPHIA ELECTRIC CO.	117
BARRETT	LONG ISLAND LIGHTING CO.	88
BARRY	ALABAMA POWER CO.	29
BARTOW	FLORIDA POWER CORP.	65
BATES	CENTRAL P&L CO.	42
BAY SHORE	THE TOLEDO EDISON CO.	153
BAYBORO	FLORIDA POWER CORP.	64
BECKJORD	THE CINCINNATI GAS & ELECTRIC CO.	146

		PAGE
BELLE ISLE	OKLAHOMA GAS & ELECTRIC CO.	108
BENNING	POTOMAC ELECTRIC POWER CO.	119
BERGEN	PUBLIC SERVICE ELECTRIC & GAS CO.	123
BERTRON	HOUSTON LIGHTING & POWER CO.	75
BIG BEND	TAMPA ELECTRIC CO.	140
BIG ROCK POINT	CONSUMERS POWER CO.	55
BIG SANDY	KENTUCKY POWER CO.	86
BIG SIOUX	IOWA PUBLIC SERVICE CO.	81
BIRD	THE MONTANA POWER CO.	151
BIRDSALL	COLO SPRINGS P&L DEPT.	47
BLACK DOG	NORTHERN STATES POWER CO. (MINN.)	103
BLACKHAWK	WISCONSIN POWER & LIGHT CO.	164
BLOUNT	MADISON GAS & ELECTRIC CO.	92
BLUE VALLEY	CITY P & L DEPT. INDEPENDENCE MO.	45
BLUFFS	NEBRASKA PUB PWR DISTRICT	56
BONIN	CITY OF LAFAYETTE UTIL. SYSTEM	44
BOONE	IOWA ELECTRIC LIGHT & POWER CO.	80
BOSWELL	MINNESOTA POWER & LIGHT CO.	93
BRAUNIG	CITY P. S. BD. SAN ANTONIO	45
BRAYTON	NEW ENGLAND POWER CO.	99
BREED	INDIANA & MICHIGAN ELECTRIC CO.	77
BREMO BLUFF	VIRGINIA ELECTRIC & POWER CO.	157
BRIDGEPORT	IOWA SO. UTIL. CO.	82
BRIDGEPORT HARBOR	THE UNITED ILLUMINATING CO.	153
BROADWAY	PASADENA LIGHT & POWER DEPT.	113
BROWN	MISSISSIPPI POWER & LIGHT CO.	95
BROWN	KENTUCKY UTILITIES CO.	86
BRUNNER ISLAND	PENNSYLVANIA POWER & LIGHT CO.	116
BUCK	DUKE POWER CO.	60
BULL RUN	TENNESSEE VALLEY AUTHORITY	141
BURBANK	BURBANK PUBLIC SERVICE DEPT	37
BURGER	OHIO EDISON CO.	106
BURLINGTON	PUBLIC SERVICE ELECTRIC & GAS CO.	123
BURLINGTON	IOWA SO. UTIL. CO.	82
BUZZARD POINT	POTOMAC ELECTRIC POWER CO.	119
CABIN CREEK	APPALACHIAN POWER CO.	30
CAHOKIA	UNION ELECTRIC CO.	154
CALUMET	COMMONWEALTH EDISON CO.	49
CAMEO	PUBLIC SERVICE CO. OF COLORADO	125
CAMPBELL	CONSUMERS POWER CO.	55
CANADYS	SOUTH CAROLINA ELECTRIC & GAS CO.	131
CANAL	LOUISVILLE GAS & ELECTRIC CO.	90
CANAL	THE CANAL ELECTRIC CO.	146
CANE RUN	LOUISVILLE GAS & ELECTRIC CO.	90
CANNON	NEW BEDFORD GAS & EDISON LIGHT CO.	98
CAPE FEAR	CAROLINA POWER & LIGHT CO.	38
CAPE KENNEDY	FLORIDA POWER & LIGHT CO.	66

		PAGE
CARBON	UTAH POWER & LIGHT CO.	156
CARDINAL	CARDINAL OPERATING CO.	37
CARLSBAD	SOUTHWEST PUBLIC SERVICE CO.	135
CAYUGA	PUBLIC SERVICE CO. OF INDIANA INC.	122
CEDAR BAYOU	HOUSTON LIGHTING & POWER CO.	76
CHALK POINT	POTOMAC ELECTRIC POWER CO.	120
CHEROKEE	PUBLIC SERVICE CO. OF COLORADO	125
CHESTER	PHILADELPHIA ELECTRIC CO.	117
CHESTERFIELD	VIRGINIA ELECTRIC & POWER CO.	157
CHESWICK	DUQUESNE LIGHT CO.	62
CHICKASAW	ALABAMA POWER CO.	29
CHOLLA	ARIZONA PUBLIC SERVICE CO.	31
CHOUTEAU	GRAND RIVER DAM AUTHORITY	70
CIMMARRON RIVER	CENTRAL TELE & UTIL. CORP - W PWR DIV.	43
CLARK	CENTRAL TELE & UTIL. CORP. - SO. COLO. PWR. DIV.	44
CLARK	NEVADA POWER CO.	98
CLARKE	HOUSTON LIGHTING & POWER CO.	75
CLEARY	TAUNTON MUNICIPAL LIGHTING PLT.	140
CLIFFSIDE	DUKE POWER CO.	60
CLIFTY CREEK	INDIANA-KENTUCKY ELECTRIC CORP.	78
CLINCH RIVER	APPALACHIAN POWER CO.	30
COBB	CONSUMERS POWER CO.	54
COFFEEN	CENTRAL ILLINOIS P.S. CO.	39
COLBERT A	TENNESSEE VALLEY AUTHORITY	141
COLBERT B	TENNESSEE VALLEY AUTHORITY	141
COLEMAN	BIG RIVERS RURAL ELECTRIC COOP	35
COLFAX	DUQUESNE LIGHT CO.	61
COLLIN	TEXAS POWER & LIGHT CO.	144
COMAL	LOWER COLORADO RIVER AUTH.	91
COMMERCE	WISCONSIN ELECTRIC POWER CO.	162
CONCHO	WEST TEXAS UTILITIES CO.	160
CONEMAUGH	PENNSYLVANIA ELECTRIC CO.	115
CONESVILLE	COLUMBUS & S OHIO ELECTRIC CO.	48
CONNERS CREEK	THE DETROIT EDISON CO.	148
CONTRA COSTA	PACIFIC GAS & ELECTRIC CO.	111
COOL WATER	SOUTHERN CALIFORNIA EDISON CO.	133
COOPER	EAST KENTUCKY RURAL ELECTRIC COOP.	62
CORETTE	THE MONTANA POWER CO.	151
COUCH	ARKANSAS POWER & LIGHT CO.	33
COUGHLIN	CENTRAL LOUISIANA ELECTRIC CO.	41
COUNCIL BLUFFS	IOWA POWER & LIGHT CO.	82
CRANE	BALTIMORE GAS & ELECTRIC CO.	34
CRAWFORD	COMMONWEALTH EDISON CO.	49
CRAWFORD	METRO EDISON CO.	92
CRIST	GULF POWER CO.	70
CROMBY	PHILADELPHIA ELECTRIC CO.	117
CROSSCUT	SALT R. PROJ. AGR. IMPR. PWR. DIST.	128
CRYSTAL RIVER	FLORIDA POWER CORP.	64
CULLEY	SOUTHERN INDIANA G. E. CO.	135
CUMBERLAND	THE POTOMAC EDISON CO.	152
CUNNINGHAM	SOUTHWEST PUBLIC SERVICE CO.	136
CUTLER	FLORIDA POWER & LIGHT CO.	66

		PAGE
DALE	EAST KENTUCKY RURAL ELECTRIC COOP.	63
DALLAS	DALLAS POWER & LIGHT CO.	57
DALLMAN	SPRINGFIELD WATER LIGHT & POWER DEPT.	138
DAN RIVER	DUKE POWER CO.	60
DANSKAMMER	CENTRAL HUDSON GAS & ELECTRIC CO.	39
DEEPWATER	ATLANTIC CITY ELECTRIC CO.	58
DEEPWATER	HOUSTON LIGHTING & POWER CO.	74
DELAWARE	PHILADELPHIA ELECTRIC CO.	117
DELAWARE CITY	DELMARVA POWER & LIGHT CO.	58
DELRAY	THE DETROIT EDISON CO.	148
DELTA	MISSISSIPPI POWER & LIGHT CO.	95
DEMOSS PETRIE	THE TUCSON GAS & ELECTRIC CO.	153
DENTON	DENTON, CITY OF	59
DENVER CITY	SOUTHWEST PUBLIC SERVICE CO.	136
DES MOINES #2	IOWA POWER & LIGHT CO.	82
DEVON	THE CONNECTICUT LIGHT & POWER CO.	147
DICKERSON	POTOMAC ELECTRIC POWER CO.	120
DIXON	COMMONWEALTH EDISON CO.	49
DRAKE	COLO SPRINGS P&L DEPT.	47
DRESDEN	COMMONWEALTH EDISON CO.	49
DRESSER	PUBLIC SERVICE CO. OF INDIANA INC.	121
DUBUQUE	INTERSTATE POWER CO.	79
DUNKIRK	NIAGARA-MOHAWK POWER CORP.	102
EAGLE MOUNTAIN	TEXAS ELECTRIC SERVICE CO.	143
EAST LAKE	CLEVELAND ELEC. ILLUM. CO	46
EAST PLANT	SOUTHWEST PUBLIC SERVICE CO.	136
EAST RIVER	CONSOLIDATED EDISON CO. OF NY	53
EATON	MISSISSIPPI POWER CO.	94
ECKERT	LANSING BOARD OF W.E.L. COMM.	87
EDDYSTONE	PHILADELPHIA ELECTRIC CO.	118
EDGAR	BOSTON EDISON CO.	36
EDGE MOOR	DELMARVA POWER & LIGHT CO.	59
EDGEWATER	WISCONSIN POWER & LIGHT CO.	164
EDGEWATER	OHIO EDISON CO.	105
EDMOND	ST. JOSEPH LIGHT & POWER CO.	139
EDWARDS	CENTRAL ILLINOIS LIGHT CO.	40
EDWARDSPORT	PUBLIC SERVICE CO. OF INDIANA INC.	121
EL CENTRO	IMPERIAL IRRIGATION DIST.	77
EL SEGUNDO	SOUTHERN CALIFORNIA EDISON CO.	133
ELM STREET	CONSUMERS POWER CO.	55
ELRAMA	DUQUESNE LIGHT CO.	61
ENCINA	SAN DIEGO GAS & ELECTRIC CO.	129
ENGLAND	ATLANTIC CITY ELECTRIC CO.	33
ENGLISH	THE UNITED ILLUMINATING CO.	153
ESSEX	PUBLIC SERVICE ELECTRIC & GAS CO.	123
ETIWANDA	SOUTHERN CALIFORNIA EDISON CO.	133

		PAGE
EUGENE	EUGENE WATER & ELECTRIC BD.	64
EVANS	KANSAS GAS & ELECTRIC CO.	85
EYLER	METRO EDISON CO.	92
FAR ROCKAWAY	LONG ISLAND LIGHTING CO.	88
FERMI	THE DETROIT EDISON CO.	148
59TH STREET	CONSOLIDATED EDISON CO. OF NY	52
FISK	COMMONWEALTH EDISON CO.	49
FITZHUGH	ARKANSAS ELECTRIC COOP CORP.	32
FORDHAM	COMMONWEALTH EDISON CO.	50
FORT CHURCHILL	SIERRA PACIFIC POWER CO.	130
FORT MARTIN	MONONGAHELA (ALLEGHENY) POWER CO.	96
FORT MYERS	FLORIDA POWER & LIGHT CO.	66
FOUR CORNERS	ARIZONA PUBLIC SERVICE CO.	31
FOX LAKE	INTERSTATE POWER CO.	79
FRENCH ISLAND	NORTHERN STATES POWER CO. (MINN.)	105
FRONT STREET	PENNSYLVANIA ELECTRIC CO.	114
GABLE STREET	HOUSTON LIGHTING & POWER CO.	74
GADSBY	UTAH POWER & LIGHT CO.	156
GADSDEN	ALABAMA POWER CO.	29
GALLAGHER	PUBLIC SERVICE CO. OF INDIANA INC.	122
GALLATIN	TENNESSEE VALLEY AUTHORITY	141
GANNON	TAMPA ELECTRIC CO.	139
GARDNER	NEVADA POWER CO.	99
GASTON	SOUTHERN ELECTRIC GENERATING CO.	135
GENOA #3	DAIRYLAND POWER COOPERATIVE	57
GEORGE NEAL	IOWA PUBLIC SERVICE CO.	81
GEYSERS	PACIFIC GAS & ELECTRIC CO.	113
GIDEON	LOWER COLORADO RIVER AUTH.	91
GILBERT	NEW JERSEY POWER & LIGHT CO.	99
GILL	KANSAS GAS & ELECTRIC CO.	85
GLEN LYN	APPALACHIAN POWER CO.	30
GLENARM	PASADENA LIGHT & POWER DEPT.	114
GLENDALE	GLENDALE PUBLIC SERVICE DEPT.	70
GLENWOOD	LONG ISLAND LIGHTING CO.	88
GORGAS #2 & #3	ALABAMA POWER CO.	29
GORGE STEAM	OHIO EDISON CO.	105
GOUDEY	NEW YORK STATE ELECTRIC & GAS CORP.	100
GOULD STREET	BALTIMORE GAS & ELECTRIC CO.	34
GRAHAM	TEXAS ELECTRIC SERVICE CO.	143
GRAINGER	SOUTH CAROLINA PUBLIC SERVICE AUTH.	132
GRAND AVE	KANSAS CITY POWER & LIGHT CO.	84
GRAND TOWER	CENTRAL ILLINOIS P.S. CO.	39
GREEN	MISSOURI PUBLIC SERVICE CO.	96
GREEN BAYOU	HOUSTON LIGHTING & POWER CO.	74

		PAGE
GREEN RIVER	KENTUCKY UTILITIES CO.	85
GREENE	ALABAMA POWER CO.	29
GREENIDGE	NEW YORK STATE ELECTRIC & GAS CORP.	100
GREENWOOD	DUKE POWER CO.	61
HADDAM	CONN YANKEE ATOMIC PWR CO.	52
HAGOOD	SOUTH CAROLINA ELECTRIC & GAS CO.	131
HALE	UTAH POWER & LIGHT CO.	156
HAMILTON	HAMILTON MUNC. ELECTRIC PLT.	72
HAMMOND	GEORGIA POWER CO.	68
HANDLEY	TEXAS ELECTRIC SERVICE CO.	143
HANFORD	WASHINGTON P. POWER SUPPLY SYS.	159
HARBOR	LOS ANGELES DEPT. OF WATER & POWER	69
HARBOR BEACH	THE DETROIT EDISON CO.	148
HARLLEE BRANCH	GEORGIA POWER CO.	69
HATFIELD	WEST PENNSYLVANIA POWER CO.	160
HAVANA	ILLINOIS POWER CO.	76
HAWTHORNE	KANSAS CITY POWER & LIGHT CO.	84
HAYDEN	COLORADO - UTE ELEC. ASSN.	47
HAYNES	LOS ANGELES DEPT. OF WATER & POWER	89
HELL GATE	CONSOLIDATED EDISON CO. OF NY	53
HENNEPIN	ILLINOIS POWER CO.	76
HESKETT	MONTANA-DAKOTA UTIL. CO.	97
HIBBARD	MINNESOTA POWER & LIGHT CO.	94
HICKLING	NEW YORK STATE ELECTRIC & GAS CORP.	101
HIGGINS	FLORIDA POWER CORP.	65
HIGH BRIDGE	NORTHERN STATES POWER CO. (MINN.)	103
HIGHGROVE	SOUTHERN CALIFORNIA EDISON CO.	133
HILL	ASSOCIATED ELEC. COOP INC.	33
HILL	CENTRAL P&L CO.	42
HOLLY AVE	LUBBOCK, CITY OF	91
HOLLY STREET	CITY OF AUSTIN ELECTRIC DEPT.	44
HOLTWOOD	PENNSYLVANIA POWER & LIGHT CO.	116
HOLYOKE	HOLYOKE GAS & ELECTRIC DEPT.	73
HOMER CITY	PENNSYLVANIA ELECTRIC CO.	114
HONOLULU	HAWAIIAN ELECTRIC CO. INC.	72
HOOKERS POINT	TAMPA ELECTRIC CO.	140
HOOT LAKE	OTTER TAIL POWER CO.	110
HORSESHOE LAKE	OKLAHOMA GAS & ELECTRIC CO.	108
HUDSON	PUBLIC SERVICE ELECTRIC & GAS CO.	123
HUDSON AVENUE	CONSOLIDATED EDISON CO. OF NY	53
HUMBOLDT BAY	PACIFIC GAS & ELECTRIC CO.	111
HUNTERS POINT	PACIFIC GAS & ELECTRIC CO.	111
HUNTINGTON BEACH	SOUTHERN CALIFORNIA EDISON CO.	133
HUNTLEY	NIAGARA-MOHAWK POWER CORP.	102
HUTCHINGS	THE DAYTON POWER & LIGHT CO.	147
HUTCHINSON	THE KANSAS POWER & LIGHT CO.	150
HUTSONVILLE	CENTRAL ILLINOIS P.S. CO.	40

		PAGE
INDIAN POINT	CONSOLIDATED EDISON CO. OF NY	53
INDIAN RIVER	ORLANDO UTILITIES COMM.	109
INDIAN RIVER	DELMARVA POWER & LIGHT CO.	59
INGLIS	FLORIDA POWER CORP.	65
IRVINGTON	THE TUCSON GAS & ELECTRIC CO.	153
JAMES RIVER	CITY UTIL. OF SPRINGFIELD	46
JEFFERIES	SOUTH CAROLINA PUBLIC SERVICE AUTH.	132
JENNISON	NEW YORK STATE ELECTRIC & GAS CORP.	101
JOHNSONVILLE	TENNESSEE VALLEY AUTHORITY	142
JOHNSTON	PACIFIC POWER & LIGHT CO.	113
JOLIET	COMMONWEALTH EDISON CO.	50
JONES STREET	OMAHA PUBLIC POWER DIST.	109
JOPPA	ELECTRIC ENERGY INC.	63
JORDAN	UTAH POWER & LIGHT CO.	157
KAHE	HAWAIIAN ELECTRIC CO. INC.	73
KAHULUI	HAWAIIAN ELECTRIC CO. INC.	73
KAMMER	OHIO EDISON CO.	106
KANAWHA RIVER	APPALACHIAN POWER CO.	30
KAPP	INTERSTATE POWER CO.	79
KARN	CONSUMERS POWER CO.	55
KAW	KANSAS CITY BOARD OF PUBLIC UTILS.	84
KEARNY A	PUBLIC SERVICE ELECTRIC & GAS CO.	124
KEARNY B	PUBLIC SERVICE ELECTRIC & GAS CO.	124
KENDALL SQUARE	CAMBRIDGE ELEC. LIGHT CO.	37
KENNEDY	JACKSONVILLE ELECTRIC LIGHT PLT.	82
KENT AVENUE	CONSOLIDATED EDISON CO. OF NY	53
KERN	PACIFIC GAS & ELECTRIC CO.	111
KEYSTONE	CENTRAL ILLINOIS LIGHT CO.	40
KEYSTONE	PENNSYLVANIA ELECTRIC CO.	114
KINCAID	COMMONWEALTH EDISON CO.	50
KING	NORTHERN STATES POWER CO. (MINN.)	103
KINGSTON	TENNESSEE VALLEY AUTHORITY	142
KNOX LEE	SOUTHWESTERN ELECTRIC POWER CO.	137
KRAMER	NEBRASKA PUBLIC POWER SYS.	98
KYGER CREEK	OHIO VALLEY ELECTRIC COOP.	107
KYRENE	SALT R. PROJ. AGR. IMPR. PWR. DIST.	129
L STREET	BOSTON EDISON CO.	36
LA PALMA	CENTRAL P&L CO.	42
LABADIE	UNION ELECTRIC CO.	155

		PAGE
LAKE CATHERINE	ARKANSAS POWER & LIGHT CO.	33
LAKE CREEK	TEXAS POWER & LIGHT CO.	145
LAKE HIGHLAND	ORLANDO UTILITIES COMM.	110
LAKE HUBBARD	DALLAS POWER & LIGHT CO.	58
LAKE PARKER	LAKELAND LIGHT & WATER DEPT.	87
LAKE PAULINE	WEST TEXAS UTILITIES CO.	160
LAKE ROAD	CLEVELAND DEPT. PUBLIC UTIL.	46
LAKE SHORE	CLEVELAND ELEC. ILLUM. CO.	47
LAKE UNION	SEATTLE DEPT. OF LIGHTING	130
LAKE WORTH	LAKE WORTH LIGHT & WATER DEPT.	87
LAKEROAD	ST. JOSEPH LIGHT & POWER CO.	139
LAKESIDE	WISCONSIN ELECTRIC POWER CO.	162
LAKESIDE	SPRINGFIELD WATER LIGHT & POWER DEPT.	138
LANSING	INTERSTATE POWER CO.	79
LAREDO	CENTRAL P&L CO.	42
LARGE	CENTRAL TELE & UTIL. CORP - W PWR DIV.	43
LAUDERDALE	FLORIDA POWER & LIGHT CO.	66
LAWRENCE	NORTHERN STATES POWER CO. (MINN.)	103
LAWRENCE	THE KANSAS POWER & LIGHT CO.	151
LAWTON	PUBLIC SERVICE CO. OF OKLAHOMA	126
LEE	CAROLINA POWER & LIGHT CO.	38
LEE	DUKE POWER CO.	60
LELAND OLDS	BASIN ELECTRIC POWER COOP	35
LEON CREEK	CITY P. S. BD. SAN ANTONIO	45
LEWIS & CLARK	MONTANA-DAKOTA UTIL. CO.	97
LEWIS CREEK	GULF STATES UTILITIES CO.	72
LIEBERMAN	SOUTHWESTERN ELECTRIC POWER CO.	138
LINCOLN	PACIFIC POWER & LIGHT CO.	113
LINCOLN	NEBRASKA PUBLIC POWER SYS.	98
LINDEN	PUBLIC SERVICE ELECTRIC & GAS CO.	124
LITTLE GYPSY	LOUISIANA POWER & LIGHT CO.	90
LONE STAR	SOUTHWESTERN ELECTRIC POWER CO.	138
LONG BEACH	SOUTHERN CALIFORNIA EDISON CO.	134
LONGVIEW	COWLITZ COUNTY PUB UTIL DST #1	120
LORDSBURG	COMMUNITY PUBLIC. SERVICE CO.	51
LOUISIANA NO. 1	GULF STATES UTILITIES CO.	71
LOUISIANA NO. 2	GULF STATES UTILITIES CO.	71
LOVETT	ORANGE & ROCKLAND UTIL. INC.	109
LYNCH	ARKANSAS POWER & LIGHT CO.	32
LYNNWAY	MASSACHUSETTS ELECTRIC CO.	92
MAD RIVER	OHIO EDISON CO.	105
MANCHESTER STREET	THE NARRAGANSETT ELECTRIC CO.	152
MANDALAY	SOUTHERN CALIFORNIA EDISON CO.	134
MARION	PUBLIC SERVICE ELECTRIC & GAS CO.	124
MARKET STREET	NEW ORLEANS PUBLIC SERVICE INC.	100
MARSHALL	DUKE POWER CO.	60
MARTINEZ	PACIFIC GAS & ELECTRIC CO.	111

		PAGE
MARTINS CREEK	PENNSYLVANIA POWER & LIGHT CO.	116
MARYSVILLE	THE DETROIT EDISON CO.	149
MASON	CENTRAL MAINE PWR CO.	41
MAYNARD	IOWA PUBLIC SERVICE CO.	81
MCDONOUGH	GEORGIA POWER CO.	69
MCMANUS	GEORGIA POWER CO.	69
MCMEEKIN	SOUTH CAROLINA ELECTRIC & GAS CO.	131
MERAMEC	UNION ELECTRIC CO.	154
MERCER	PUBLIC SERVICE ELECTRIC & GAS CO.	124
MEREDOSIA	CENTRAL ILLINOIS P.S. CO.	40
MERRIMACK	PUBLIC SERVICE CO OF NEW HAMPSHIRE	122
MIAMI	FLORIDA POWER & LIGHT CO.	66
MIAMI FORT	THE CINCINNATI GAS & ELECTRIC CO.	146
MICHIGAN CITY	NORTHERN INDIANA PUBLIC SERVICE CO.	103
MICHOUD	NEW ORLEANS PUBLIC SERVICE INC.	100
MIDDLETOWN	THE HARTFORD ELECTRIC LIGHT CO.	150
MILESBURG	WEST PENNSYLVANIA POWER CO.	159
MILLER	BRAZOS ELECTRIC POWER COOP INC.	37
MILLIKEN	NEW YORK STATE ELECTRIC & GAS CORP.	101
MILLSTONE #1	MILLSTONE POINT COMPANY	93
MINNESOTA VALLEY	NORTHERN STATES POWER CO. (MINN.)	104
MISSION ROAD	CITY P. S. BD. SAN ANTONIO	45
MISSOURI AVENUE	ATLANTIC CITY ELECTRIC CO.	34
MISSOURI CITY	N. W. ELECTRIC POWER COOP. INC.	98
MISTERSKY	DETROIT PUBLIC LIGHTING COMM.	59
MITCHELL	NORTHERN INDIANA PUBLIC SERVICE CO.	102
MITCHELL	GEORGIA POWER CO.	69
MITCHELL	WEST PENNSYLVANIA POWER CO.	159
MOHAVE	SOUTHERN CALIFORNIA EDISON CO.	135
MOLINE	IOWA-ILLINOIS GAS & ELECTRIC CO.	81
MONROE	MONROE, CITY OF	97
MONTROSE	KANSAS CITY POWER & LIGHT CO.	84
MONTVILLE	THE CONNECTICUT LIGHT & POWER CO.	147
MOORE	SOUTHWEST PUBLIC SERVICE CO.	136
MOORELAND	WESTERN FARMERS ELECTRIC COOP.	161
MORAN	BURLINGTON ELEC. LIGHT DEPT.	70
MORGAN CREEK	TEXAS ELECTRIC SERVICE CO.	144
MORGANTOWN	POTOMAC ELECTRIC POWER CO.	120
MORRO BAY	PACIFIC GAS & ELECTRIC CO.	112
MORROW	CONSUMERS POWER CO.	54
MOSELLE	SOUTH MISSISSIPPI ELEC PWR ASSOC	132
MOSES	ARKANSAS POWER & LIGHT CO.	32
MOSS LANDING	PACIFIC GAS & ELECTRIC CO.	112
MOUND	UNION ELECTRIC CO.	154
MOUNT STORM	VIRGINIA ELECTRIC & POWER CO.	157
MOUNT TOM	HOLYOKE WATER POWER CO.	73
MOUNTAIN CREEK	DALLAS POWER & LIGHT CO.	57
MULLERGREN	CENTRAL TELE & UTIL. CORP - W PWR DIV.	43
MUSKINGUM	OHIO EDISON CO.	107
MUSTANG	OKLAHOMA GAS & ELECTRIC CO.	108
MYSTIC	BOSTON EDISON CO.	36

		PAGE
NATCHEZ	MISSISSIPPI POWER & LIGHT CO.	95
NAUGHTON	UTAH POWER & LIGHT CO.	157
NECHES	GULF STATES UTILITIES CO.	71
NELSON	GULF STATES UTILITIES CO.	71
NELSON DEWEY	WISCONSIN POWER & LIGHT CO.	164
NEOSHO	KANSAS GAS & ELECTRIC CO.	85
NEW BOSTON	BOSTON EDISON CO.	36
NEW CASTLE	PENNSYLVANIA POWER CO.	117
NEWMAN	EL PASO ELECTRIC CO.	63
NEWMAN	GARLAND MUNICIPAL UTILITIES	68
NICHOLS	SOUTHWEST PUBLIC SERVICE CO.	136
NILES	OHIO EDISON CO.	106
NINE MILE	LOUISIANA POWER & LIGHT CO.	90
NINE MILE POINT	NIAGARA-MOHAWK POWER CORP.	102
NOBLESVILLE	PUBLIC SERVICE CO. OF INDIANA INC.	122
NORTH LAKE	DALLAS POWER & LIGHT CO.	57
NORTH MAIN	TEXAS ELECTRIC SERVICE CO.	144
NORTH OAK CREEK	WISCONSIN ELECTRIC POWER CO.	163
NORTH OMAHA	OMAHA PUBLIC POWER DIST.	109
NORTH TEXAS	BRAZOS ELECTRIC POWER COOP INC.	37
NORTHEAST	KANSAS CITY POWER & LIGHT CO.	84
NORTHEASTERN	PUBLIC SERVICE CO. OF OKLAHOMA	126
NORTHPORT	LONG ISLAND LIGHTING CO.	88
NORTHSIDE	JACKSONVILLE ELECTRIC LIGHT PLT.	83
NORTHWEST	COMMONWEALTH EDISON CO.	50
NORWALK HARBOR	THE CONNECTICUT LIGHT & POWER CO.	147
NUCLA	COLORADO - UTE ELEC. ASSN.	47
NUECES BAY	CENTRAL P&L CO.	42
OAK CREEK	WEST TEXAS UTILITIES CO.	160
OCOTILLO	ARIZONA PUBLIC SERVICE CO.	31
OHIO RIVER	SOUTHERN INDIANA G. E. CO.	135
OLEUM	PACIFIC GAS & ELECTRIC CO.	112
OLINGER	GARLAND MUNICIPAL UTILITIES	68
OSAGE	OKLAHOMA GAS & ELECTRIC CO.	108
OSWEGO	NIAGARA-MOHAWK POWER CORP.	101
OTTAWA	LANSING BOARD OF W.E.L. COMM.	88
OWENSBORO #1	OWENSBORO MUNICIPAL UTIL.	110
OYSTER CREEK	JERSEY CENTRAL POWER & LIGHT CO.	83
PADDYS RUN	LOUISVILLE GAS & ELECTRIC CO.	91
PAINESVILLE	PAINESVILLE ELECTRIC LT. DEPT	113
PAINT CREEK	WEST TEXAS UTILITIES CO.	161
PALATKA	FLORIDA POWER & LIGHT CO.	67
PALO SECO	PUERTO RICO WATER RESOURCES AUTH.	127
PARADISE	TENNESSEE VALLEY AUTHORITY	142

		PAGE
PARISH	HOUSTON LIGHTING & POWER CO.	75
PARKDALE	DALLAS POWER & LIGHT CO.	58
PARR	SOUTH CAROLINA ELECTRIC & GAS CO.	131
PATERSON	NEW ORLEANS PUBLIC SERVICE INC.	100
PATHFINDER	NORTHERN STATES POWER CO. (MINN.)	105
PAWTUCKET	BLACKSTONE VALLEY ELECTRIC CO.	36
PEACH BOTTOM	PHILADELPHIA ELECTRIC CO.	118
PENNSALT	THE DETROIT EDISON CO.	149
PERMIAN BASIN	TEXAS ELECTRIC SERVICE CO.	144
PERRY	INDIANAPOLIS POWER & LIGHT CO.	76
PERSON	PUBLIC SERVICE CO. OF NEW MEXICO	121
PETERSBURG	INDIANAPOLIS POWER & LIGHT CO.	79
PETERSBURG	INDIANA STATEWIDE REC	74
PHILLIPS	DUQUESNE LIGHT CO.	62
PHILO	OHIO POWER CO.	107
PHOENIX	ARIZONA PUBLIC SERVICE CO.	31
PICWAY	COLUMBUS & S OHIO ELECTRIC CO.	48
PINEVILLE	KENTUCKY UTILITIES CO.	86
PIQUA	PIQUA MUNICIPAL POWER PLANT	119
PITTSBURG	PACIFIC GAS & ELECTRIC CO.	112
PLANT #3	LAKELAND LIGHT & WATER DEPT.	87
PLANT NO. 2	LUBBOCK, CITY OF	91
PLANT X	SOUTHWEST PUBLIC SERVICE CO.	137
POINT BEACH	WISCONSIN ELECTRIC POWER CO.	163
PORT EVERGLADES	FLORIDA POWER & LIGHT CO.	67
PORT JEFFERSON	LONG ISLAND LIGHTING CO.	89
PORT WASHINGTON	WISCONSIN ELECTRIC POWER CO.	163
PORT WENTWORTH	SAVANNAH ELECTRIC & POWER CO.	130
PORTLAND	METRO EDISON CO.	93
PORTSMOUTH	VIRGINIA ELECTRIC & POWER CO.	158
POSSUM POINT	VIRGINIA ELECTRIC & POWER CO.	158
POSTON	COLUMBUS & S OHIO ELECTRIC CO.	48
POTOMAC RIVER	POTOMAC ELECTRIC POWER CO.	120
POTRERO	PACIFIC GAS & ELECTRIC CO.	112
POWERTON	COMMONWEALTH EDISON CO.	50
PRAGER	PUBLIC SERVICE CO. OF NEW MEXICO	121
PRAIRIE CREEK # 1-3	IOWA ELECTRIC LIGHT & POWER CO.	80
PRAIRIE CREEK # 4	IOWA ELECTRIC LIGHT & POWER CO.	80
PRESQUE ISLE	UPPER PENINSULA GEN. CO.	156
PRITCHARD	INDIANAPOLIS POWER & LIGHT CO.	78
PUEBLO	CENTRAL TELE & UTIL. CORP. - SO. COLO. PWR. DIV.	43
PULLIAM	WISCONSIN PUBLIC SERVICE CORP.	164
PURDOM	TALLAHASSEE, CITY OF	139
QUINDARO #2	KANSAS CITY BOARD OF PUBLIC UTILS.	85
QUINDARO #3	KANSAS CITY BOARD OF PUBLIC UTILS.	85

REEVES AVENUE	VIRGINIA ELECTRIC & POWER CO.	158
REID	BIG RIVERS RURAL ELECTRIC COOP	35
RICHMOND	PHILADELPHIA ELECTRIC CO.	118
RIDGELAND	COMMONWEALTH EDISON CO.	51
RIO GRANDE	EL PASO ELECTRIC CO.	63
RIO PECOS	WEST TEXAS UTILITIES CO.	161
RIPLEY	KANSAS GAS & ELECTRIC CO.	86
RITCHIE	ARKANSAS POWER & LIGHT CO.	33
RIVER CREST	TEXAS POWER & LIGHT CO.	145
RIVER ROUGE	THE DETROIT EDISON CO.	149
RIVERBANK	OKLAHOMA GAS & ELECTRIC CO.	109
RIVERBEND	DUKE POWER CO.	61
RIVERSIDE	HOLYOKE WATER POWER CO.	74
RIVERSIDE	SAVANNAH ELECTRIC & POWER CO.	130
RIVERSIDE	BALTIMORE GAS & ELECTRIC CO.	34
RIVERSIDE	NORTHERN STATES POWER CO. (MINN.)	104
RIVERSIDE	IOWA-ILLINOIS GAS & ELECTRIC CO.	81
RIVERTON	EMPIRE DIST. ELECTRIC CO.	63
RIVERTON	POTOMAC EDISON CO. (VA.)	119
RIVERVIEW	SOUTHWEST PUBLIC SERVICE CO.	137
RIVESVILLE	MONONGAHELA (ALLEGHENY) POWER CO.	96
RIVIERA	FLORIDA POWER & LIGHT CO.	67
ROBINSON	HOUSTON LIGHTING & POWER CO.	75
ROBINSON	CAROLINA POWER & LIGHT CO.	38
ROCHESTER 3	ROCHESTER GAS & ELECTRIC CORP.	128
ROCHESTER 7	ROCHESTER GAS & ELECTRIC CORP.	128
ROCHESTER 13	ROCHESTER GAS & ELECTRIC CORP.	128
ROCK RIVER	WISCONSIN POWER & LIGHT CO.	164
RODEMACHER	CITY OF LAFAYETTE UTIL. SYSTEM	44
ROSWELL	SOUTHWEST PUBLIC SERVICE CO.	137
ROWE	YANKEE ATOMIC ELECTRIC CO.	165
ROXBORO	CAROLINA POWER & LIGHT CO.	38
SABINE	GULF STATES UTILITIES CO.	72
SABROOKE	COMMONWEALTH EDISON CO.	51
SAGINAW RIVER	CONSUMERS POWER CO.	55
SAGUARO	ARIZONA PUBLIC SERVICE CO.	31
SALEM HARBOR	NEW ENGLAND POWER CO.	99
SAMMIS	OHIO EDISON CO.	106
SAN ANGELO	WEST TEXAS UTILITIES CO.	161
SAN BERNARDINO	SOUTHERN CALIFORNIA EDISON CO.	134
SAN JUAN	PUERTO RICO WATER RESOURCES AUTH.	127
SAN ONOFRE	SOUTHERN CALIFORNIA EDISON CO.	134

		PAGE
SANFORD NEW	FLORIDA POWER & LIGHT CO.	67
SAXTON	PENNSYLVANIA ELECTRIC CO.	114
SAYREVILLE	JERSEY CENTRAL POWER & LIGHT CO.	83
SCATTERGOOD	LOS ANGELES DEPT. OF WATER & POWER	89
SCHILLER	PUBLIC SERVICE CO OF NEW HAMPSHIRE	123
SCHOLTZ	GULF POWER CO.	70
SCHUYLKILL	PHILADELPHIA ELECTRIC CO.	118
SEAHOLM	CITY OF AUSTIN ELECTRIC DEPT.	44
74TH STREET	CONSOLIDATED EDISON CO. OF NY	52
SEVIER	TENNESSEE VALLEY AUTHORITY	141
SEWARD	PENNSYLVANIA ELECTRIC CO.	115
SEWAREN	PUBLIC SERVICE ELECTRIC & GAS CO.	125
SHAWNEE	TENNESSEE VALLEY AUTHORITY	142
SHAWVILLE	PENNSYLVANIA ELECTRIC CO.	115
SHELDON	NEBRASKA PUB PWR DISTRICT	56
SHERMAN CREEK	CONSOLIDATED EDISON CO. OF NY	54
SHIPPINGPORT	DUQUESNE LIGHT CO.	62
SHUFFLETON	PUGET SOUND POWER & LIGHT CO.	127
SIBLEY	MISSOURI PUBLIC SERVICE CO.	96
SILVER GATE	SAN DIEGO GAS & ELECTRIC CO.	129
SIOUX	UNION ELECTRIC CO.	155
SIXTH STREET	IOWA ELECTRIC LIGHT & POWER CO.	80
SMITH	OWENSBORO MUNICIPAL UTIL.	110
SMITH	GULF POWER CO.	71
SMITH	THE POTOMAC EDISON CO.	152
SOMERSET	MONTAUP ELECTRIC CO.	97
SOUTH BAY	SAN DIEGO GAS & ELECTRIC CO.	129
SOUTH COAST.	PUERTO RICO WATER RESOURCES AUTH.	127
SOUTH MEADOW	THE HARTFORD ELECTRIC LIGHT CO.	150
SOUTH OAK CREEK	WISCONSIN ELECTRIC POWER CO.	163
SOUTH STREET	THE NARRAGANSETT ELECTRIC CO.	152
SOUTHEAST	NORTHERN STATES POWER CO. (MINN.)	104
SOUTHSIDE	JACKSONVILLE ELECTRIC LIGHT PLT.	83
SOUTHWARK	PHILADELPHIA ELECTRIC CO.	118
SOUTHWESTERN	PUBLIC SERVICE CO. OF OKLAHOMA	126
SPORN	CENTRAL OPERATING CO.	41
SPRINGDALE	WEST PENNSYLVANIA POWER CO.	159
ST. CLAIR	THE DETROIT EDISON CO.	149
STAMFORD	THE HARTFORD ELECTRIC LIGHT CO.	150
STANDARD OIL	MISSISSIPPI CO.	94
STANTON	PENNSYLVANIA POWER & LIGHT CO.	116
STANTON	UNITED POWER ASSOC.	155
STATE LINE	COMMONWEALTH EDISON CO.	48
STATE STREET	WESTERN MASSACHUSETTS ELECTRIC CO.	162
STATION B	SAN DIEGO GAS & ELECTRIC CO.	129
STATION L	PORTLAND GENERAL ELECTRIC CO.	119
STEEL	THE UNITED ILLUMINATING CO.	154
STERLINGTON	LOUISIANA POWER & LIGHT CO.	90
STONEMAN	DAIRYLAND POWER COOPERATIVE	57
STOUT	INDIANAPOLIS POWER & LIGHT CO.	78
STEAM #2	TACOMA DEPT. OF PUBLIC UTILS.	139

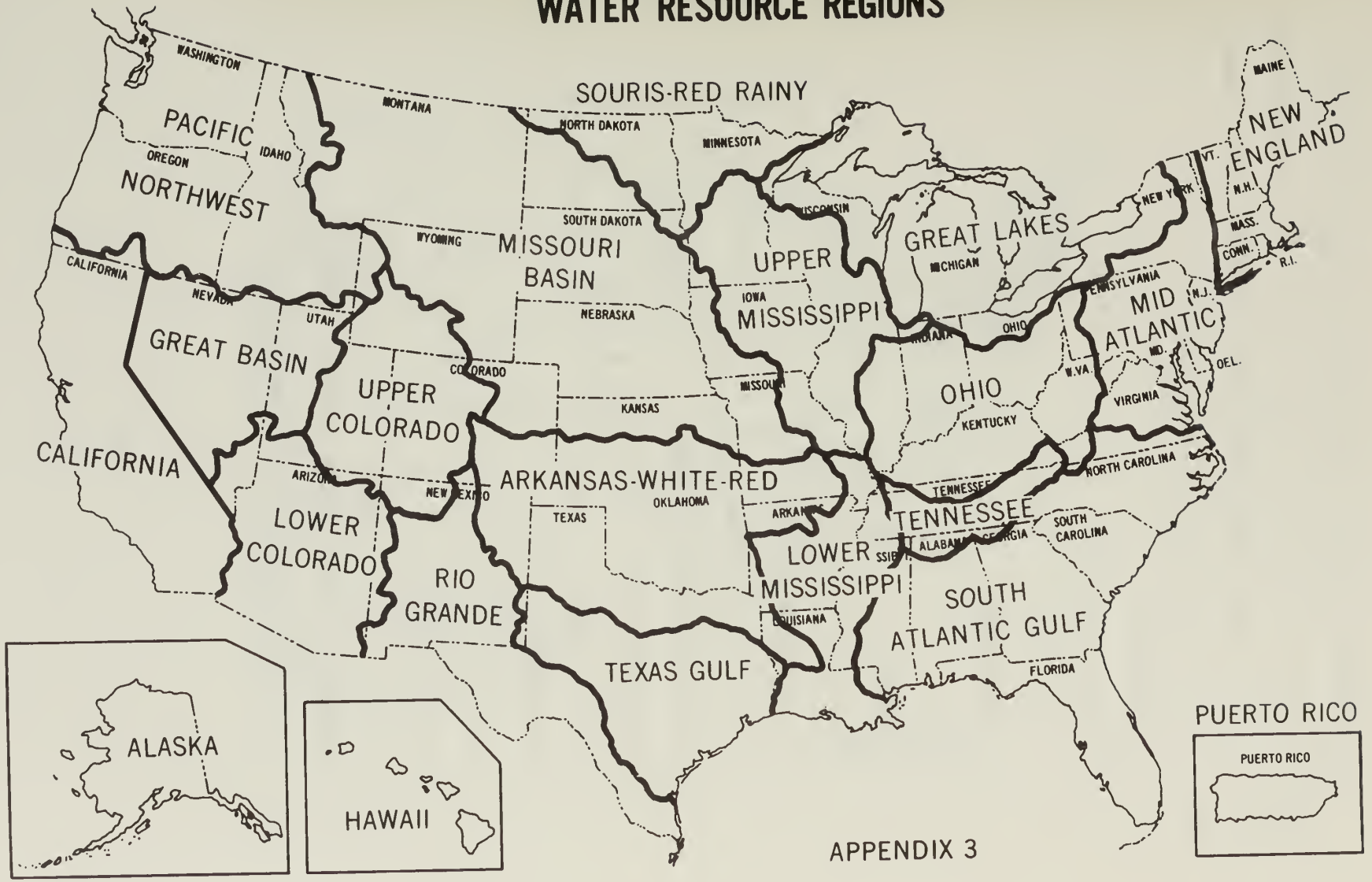
		PAGE
STRYKER	TEXAS POWER & LIGHT CO.	145
STUART	THE DAYTON POWER & LIGHT CO.	148
SUNBURY	PENNSYLVANIA POWER & LIGHT CO.	116
SUNRISE	NEVADA POWER CO.	99
SUTHERLAND	IOWA ELECTRIC LIGHT & POWER CO.	80
SUTTON	CAROLINA POWER & LIGHT CO.	39
SUWANNEE	FLORIDA POWER CORP.	65
SWEATT	MISSISSIPPI POWER CO.	94
TAIT	THE DAYTON POWER & LIGHT CO.	147
TANNERS CREEK	INDIANA & MICHIGAN ELECTRIC CO.	77
TAUNTON	TAUNTON MUNICIPAL LIGHTING PLT.	140
TECHE	CENTRAL LOUISIANA ELECTRIC CO.	41
TECUMSEH	THE KANSAS POWER & LIGHT CO.	151
TIDD	OHIO POWER CO.	107
TIGER	DUKE POWER CO.	61
TITUS	METRO EDISON CO.	93
TORONTO	OHIO EDISON CO.	106
TRACY	SIERRA PACIFIC POWER CO.	130
TRADINGHOUSE	TEXAS POWER & LIGHT CO.	145
TRENTON CHANNEL	THE DETROIT EDISON CO.	149
TRINIDAD	TEXAS POWER & LIGHT CO.	145
TULSA	PUBLIC SERVICE CO. OF OKLAHOMA	126
TURKEY POINT	FLORIDA POWER & LIGHT CO.	67
TURNER	FLORIDA POWER CORP.	65
TUTTLE	CITY P. S. BD. SAN ANTONIO	45
12TH STREET	VIRGINIA ELECTRIC & POWER CO.	158
TWIN BRANCH	INDIANA & MICHIGAN ELECTRIC CO.	78
TYRONE	KENTUCKY UTILITIES CO.	87
URQUHART	SOUTH CAROLINA ELECTRIC & GAS CO.	131
VALLEY	WISCONSIN ELECTRIC POWER CO.	163
VALLEY	TEXAS POWER & LIGHT CO.	146
VALLEY	LOS ANGELES DEPT. OF WATER & POWER	89
VALMONT	PUBLIC SERVICE CO. OF COLORADO	125
VENICE #1	UNION ELECTRIC CO.	155
VENICE #2	UNION ELECTRIC CO.	155
VERMILION	ILLINOIS POWER CO.	76
VICTORIA	CENTRAL P&L CO.	43
VIENNA	DELMARVA POWER & LIGHT CO. OF MD.	58

		PAGE
WABASH RIVER	PUBLIC SERVICE CO. OF INDIANA INC.	122
WAGNER	BALTIMORE GAS & ELECTRIC CO.	34
WAIAU	HAWAIIAN ELECTRIC CO. INC.	73
WALLACE	CENTRAL ILLINOIS LIGHT CO.	40
WALNUT	COLUMBUS & S OHIO ELECTRIC CO.	48
WARREN	PENNSYLVANIA ELECTRIC CO.	115
WATEREE	SOUTH CAROLINA ELECTRIC & GAS CO.	132
WATERSIDE	CONSOLIDATED EDISON CO. OF NY	54
WATSON	MISSISSIPPI POWER CO.	95
WATTS BAR	TENNESSEE VALLEY AUTHORITY	142
WAUKEGAN	COMMONWEALTH EDISON CO.	51
WEADOCK	CONSUMERS POWER CO.	56
WEATHERSPOON	CAROLINA POWER & LIGHT CO.	39
WEBSTER	MASSACHUSETTS ELECTRIC CO.	92
WEBSTER	HOUSTON LIGHTING & POWER CO.	76
WELEETKA	PUBLIC SERVICE CO. OF OKLAHOMA	127
WERNER	JERSEY CENTRAL POWER & LIGHT CO.	83
WEST END	THE CINCINNATI GAS & ELECTRIC CO.	146
WEST SPRINGFIELD	WESTERN MASSACHUSETTS ELECTRIC CO.	162
WESTON	WISCONSIN PUBLIC SERVICE CORP.	165
WESTPORT	BALTIMORE GAS & ELECTRIC CO.	35
WHARTON	HOUSTON LIGHTING & POWER CO.	75
WHITTING	CONSUMERS POWER CO.	56
WICHITA FALLS	TEXAS ELECTRIC SERVICE CO.	144
WIDOWS CREEK A	TENNESSEE VALLEY AUTHORITY	143
WIDOWS CREEK B	TENNESSEE VALLEY AUTHORITY	143
WILKES	SOUTHWESTERN ELECTRIC POWER CO.	138
WILL COUNTY	COMMONWEALTH EDISON CO.	51
WILLIAMSBURG	PENNSYLVANIA ELECTRIC CO.	115
WILLOW GLEN	GULF STATES UTILITIES CO.	72
WILLOW ISLAND	MONONGAHELA (ALLEGHENY) POWER CO.	97
WILMARTH	NORTHERN STATES POWER CO. (MINN.)	104
WILSON	MISSISSIPPI POWER & LIGHT CO.	95
WINDSOR	BEECH BOTTOM POWER CO.	35
WINNETKA	WINNETKA, VILLAGE OF.	162
WINONA	NORTHERN STATES POWER CO. (MINN.)	104
WOOD RIVER	ILLINOIS POWER CO.	77
WOODCOCK	OHIO POWER CO.	107
WYANDOTTE	THE DETROIT EDISON CO.	150
WYANDOTTE	WYANDOTTE DEPT. OF MUNC. SER.	165
WYMAN	CENTRAL MAINE PWR CO.	41
YATES	GEORGIA POWER CO.	69
YORKTOWN	VIRGINIA ELECTRIC & POWER CO.	158
YOUNG	MINNKOTA POWER COOP.	94
YUCCA	ARIZONA PUBLIC SERVICE CO.	32
ZUNI	PUBLIC SERVICE CO. OF COLORADO	126

AIR QUALITY CONTROL REGIONS

APPENDIX 2

WATER RESOURCE REGIONS



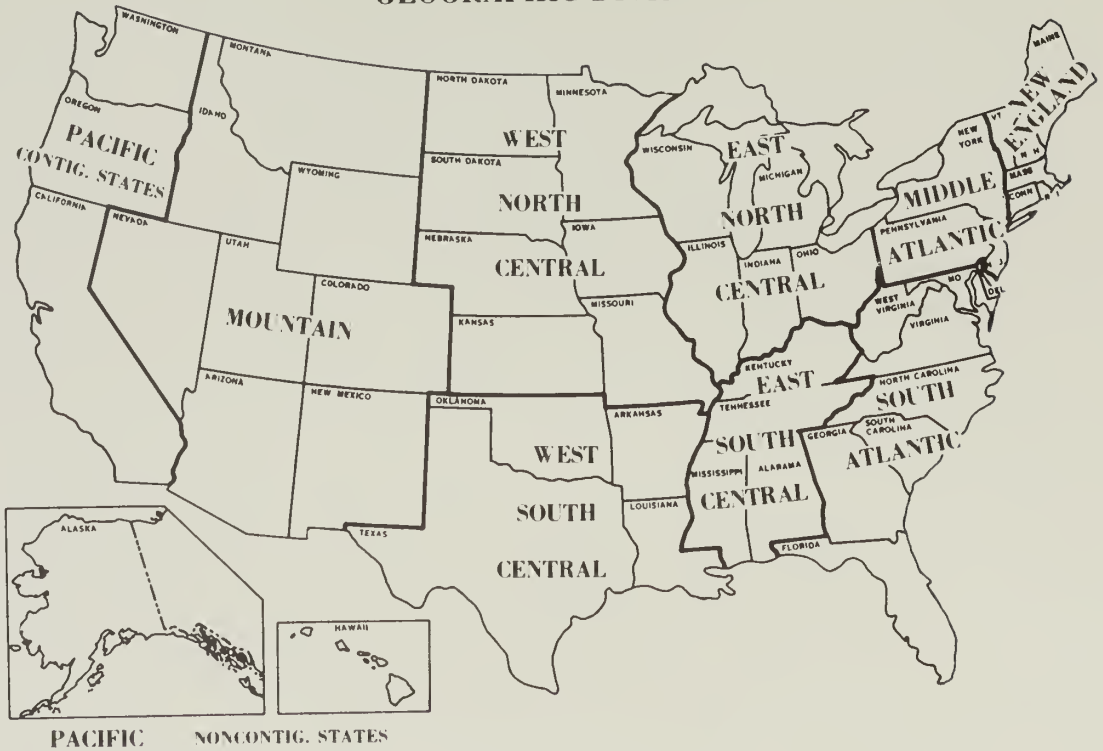
APPENDIX 3

Water Resource Regions

The following list gives the numbers and names of the Water Resource Regions as used in the summary tables of this publication. Where the names given on the map differ from those on the summary tables, the map name is given parenthetically:

1. New England
2. Middle Atlantic
3. South Atlantic - Gulf
4. Great Lakes
5. Ohio
6. Tennessee
7. Upper Mississippi
8. Lower Mississippi
9. Souris - Red - Rainy
10. Missouri (Missouri Basin)
11. Arkansas - White - Red
12. Texas - Gulf
13. Rio Grande
14. Upper Colorado
15. Lower Colorado
16. Great Basin
17. Columbia - North Pacific (Pacific Northwest)
18. California - South Pacific (California)

GEOGRAPHIC DIVISIONS



APPENDIX 4

UNIVERSITY OF ILLINOIS-URBANA
3 0112 084232146